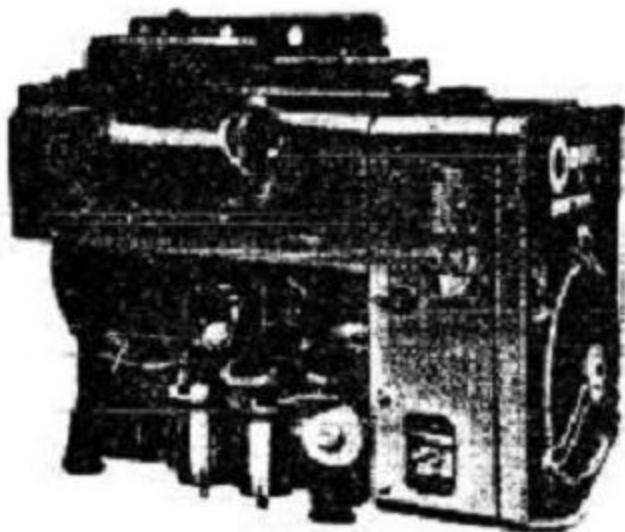


The following catalog
has gaps in its page
numbers, or doesn't
have any numbers.

We have chosen to
leave the page
numbering in the
order that Acrobat
assigns it.

Parts Catalog

SERIES
DJC
Engine



APPROVED

GENERAL INFORMATION

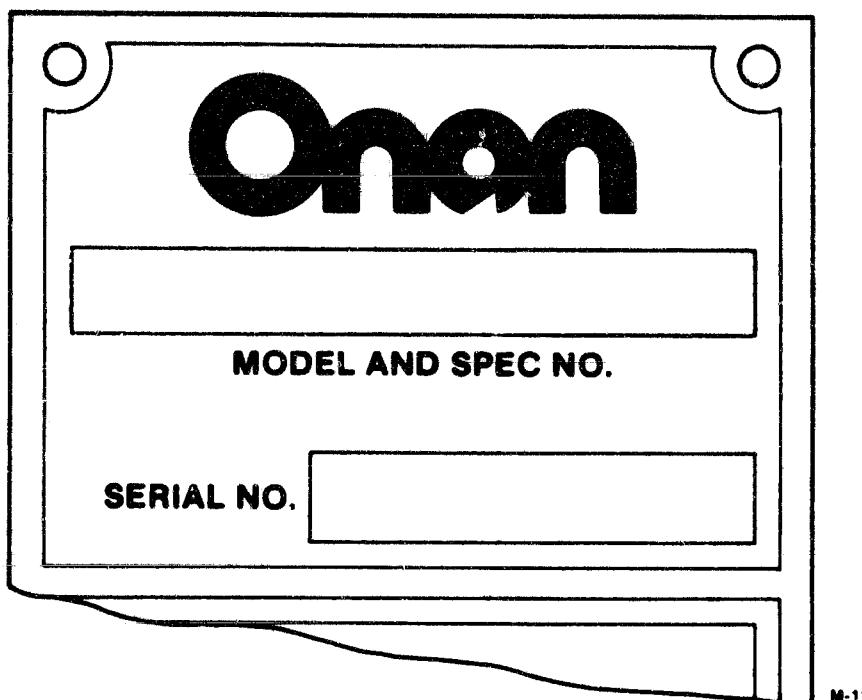
INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

1. Always give the MODEL, SPEC NO. and SERIAL NO.



For handy reference, insert "YOUR" nameplate information in the spaces above.

2. Do not order by reference number; always use part number and description.
3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Catalog due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de propósito, ya que bastante confusión resultó de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extrajeros, etc."

Consiga los precios vigentes de su distribuidor de productos "ONAN."

INDEX

	LOCATION
GENERAL INFORMATION	A2
INTRODUCTION	A4
STANDARD ENGINE PARTS SECTION	
Base, Oil	A6,A7
Block, Cylinder	A6,A7
Camshaft	A11
Cleaner, Air	B4,B5
Crankshaft	A13
Damper, Breather (Spec S)	A10
Filter, Fuel	B4,B5
Flywheel	A13
Gearcase	A5
Governor	B3
Head, Cylinder - Valve and Rocker	A8,A9
Housing, Air	B10
Injection System	B6,B7
Manifold, Exhaust	A14
Oil System	B8,B9
Piston and Connecting Rod	A12
Pump, Fuel	B6,B7
Service Kits and Miscellaneous	B11
Solenoid, Stop	A14
Starter	B1
Starter Parts	B2
OPTIONAL EQUIPMENT PARTS SECTION	OPTION NUMBER
Alternator, Flywheel (WICO) - Begin Spec V	C2 1
Alternator, Flywheel (WICO) - Specs A Through U	C3 2
Cleaner, Air - Oil Bath	C4 4
Clutch (Rockford)	C10 10
Clutch (Twin Disc)	C10 11
Control (Engine)	C4 3
Control, Governor - Variable Speed	C5 5
Control, Governor - Two Speed	C6 6
Discharge, Air Shutter - Begin Spec S	C7 7
Discharge, Air Shutter - Spec A Through R	C8 8
Miscellaneous Options	C13
Starter Parts - 24 Volt (191-0443)	C11
Switch, High Air Temperature	C12
Switch, Low Oil Pressure	C9 9

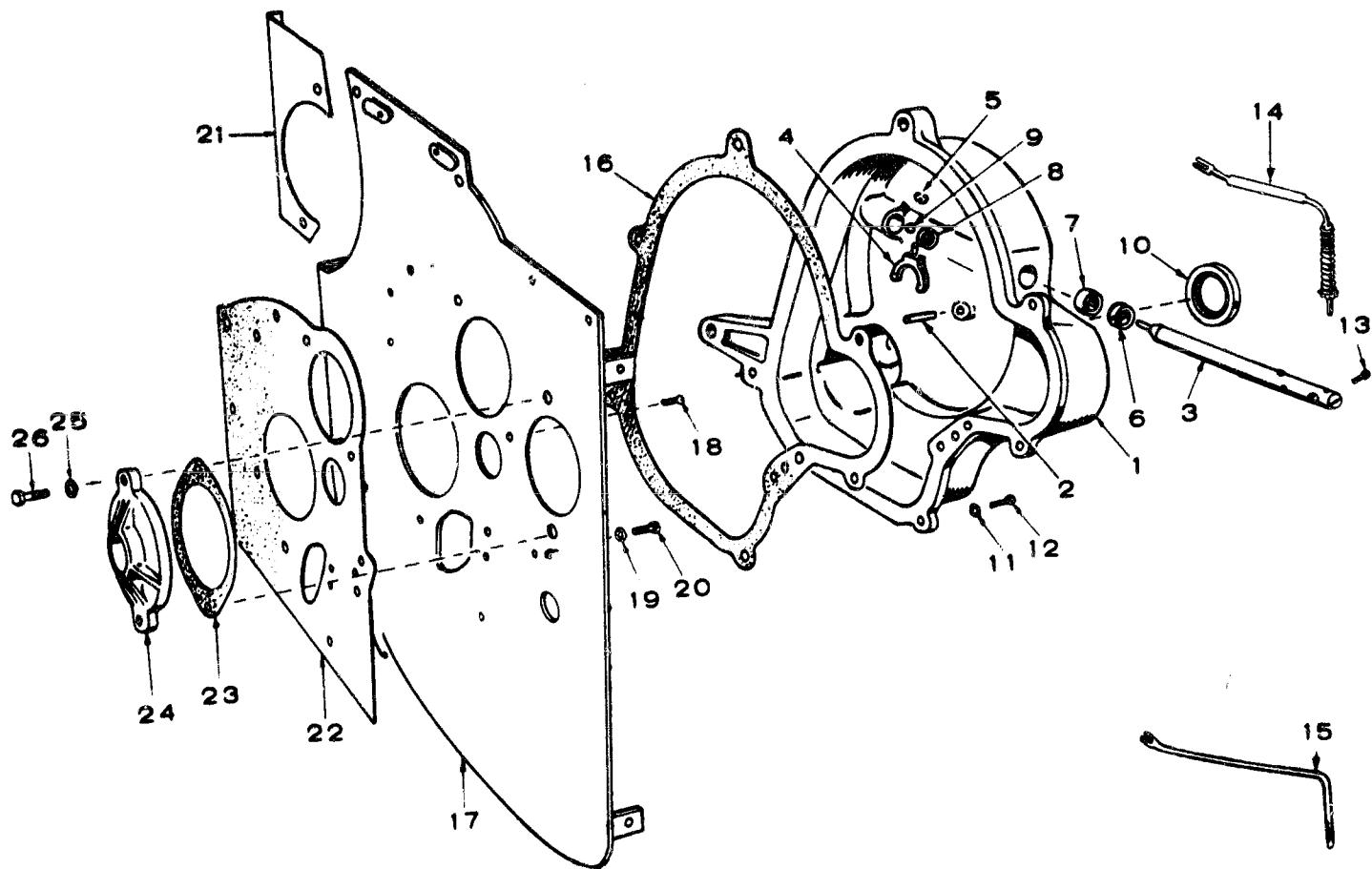
INTRODUCTION

This catalog applies to the standard industrial DJC Engines and factory installed options. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the Model and Spec No. from the engine nameplate, select the Parts that apply to your Engine Model and Spec No. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left engine sides are determined by facing the blower end (front) of the engine. The specification letter advances (A to B, B to C, etc.) with manufacturing changes.

STANDARD ENGINE PARTS SECTION

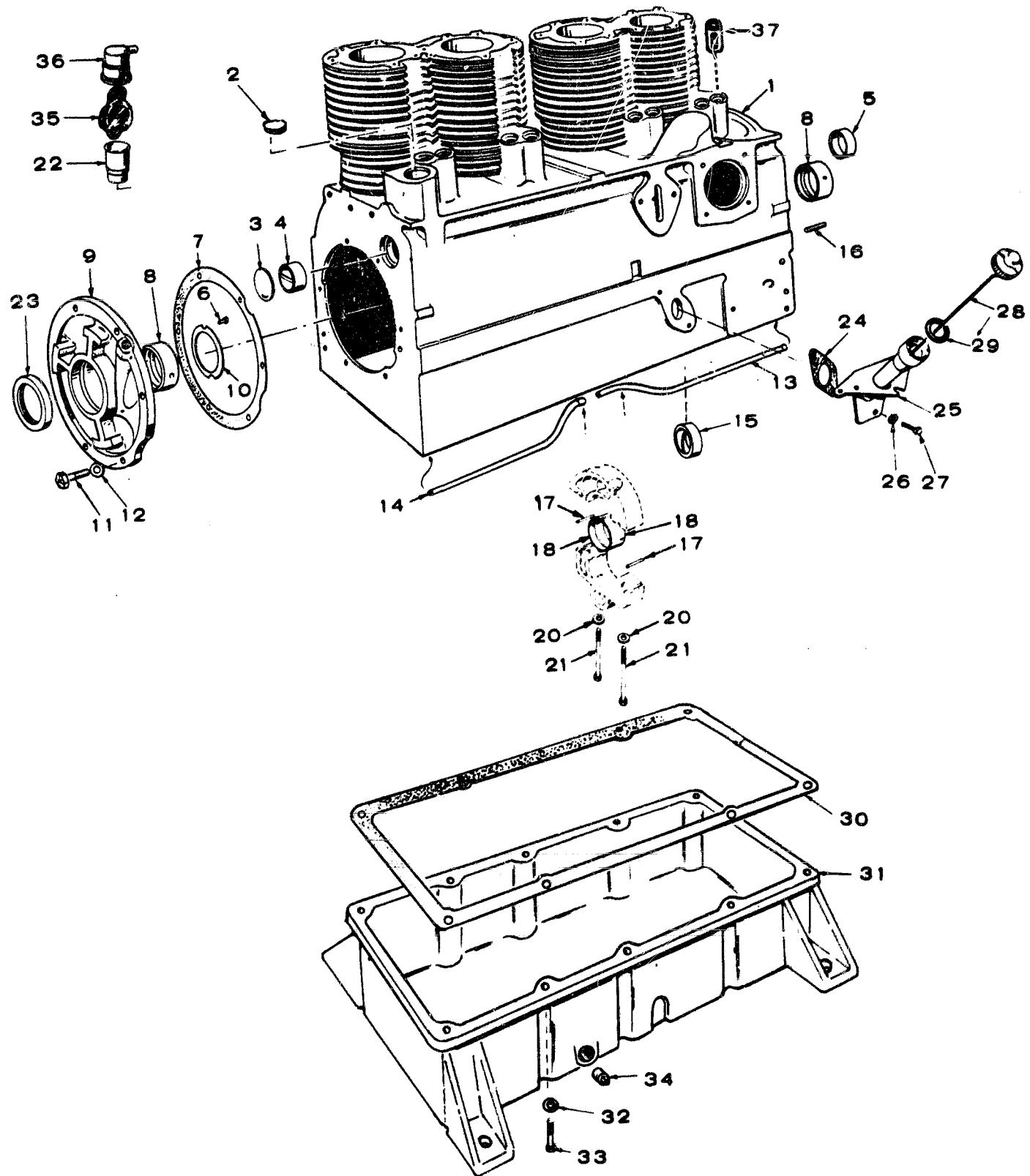
This section contains the engine parts used on standard engines listed in the Engine Data table.

GEARCASE



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	GEARCASE ASSEMBLY (Includes parts marked *)			15	150-0847	1	Arm, Governor (Specs A Through Q)
	103-0366	1	Begin Spec V	16	103-0251	1	Gasket, Gearcase
	103-0277	1	Specs A Through U	17	103-0272	1	Backplate
2	516-0111	1	*Pin, Roll - Cup Stop	18	814-0148	2	Screw, Machine - Flat Head (1/4-20 x 1/2")
3	150-0838	1	*Shaft, Governor	19	850-0045	1	Washer, Lock - Spring (5/16")
4	150-0777	1	*Yoke, Governor	20	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")
5	518-0129	1	*Ring, Yoke Retaining	21	134-1532	1	Baffle, Backplate
6	509-0088	1	*Seal, Oil	22	103-0218	1	Gasket, Backplate
7	510-0048	1	*Bearing, Governor Shaft (1/2")	23	160-0721	1	Gasket, Cover
8	510-0082	1	*Bearing, Governor Shaft (1/4")	24	103-0221	1	Cover, Backplate Opening
9	510-0043	1	*Ball, Governor Shaft Thrust	25	850-0050	2	Washer, Lock - Spring (3/8")
10	509-0087	1	*Seal, Oil	26	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
11	850-0045	5	Washer, Lock - Spring (5/16")				* - Parts included in Gearcase Assembly.
12	SCREW, CAP - HEX HEAD						
	800-0028	1	5/16-18 x 1"				
	110-0879	4	5/16-18 x 1-1/4"				
13	815-0176	1	Screw, Cap - Hex Head (#8-32 x 1/2")				
14	150-1095	1	Arm Assembly, Governor (Begin Spec R)				

CYLINDER BLOCK AND OIL BASE

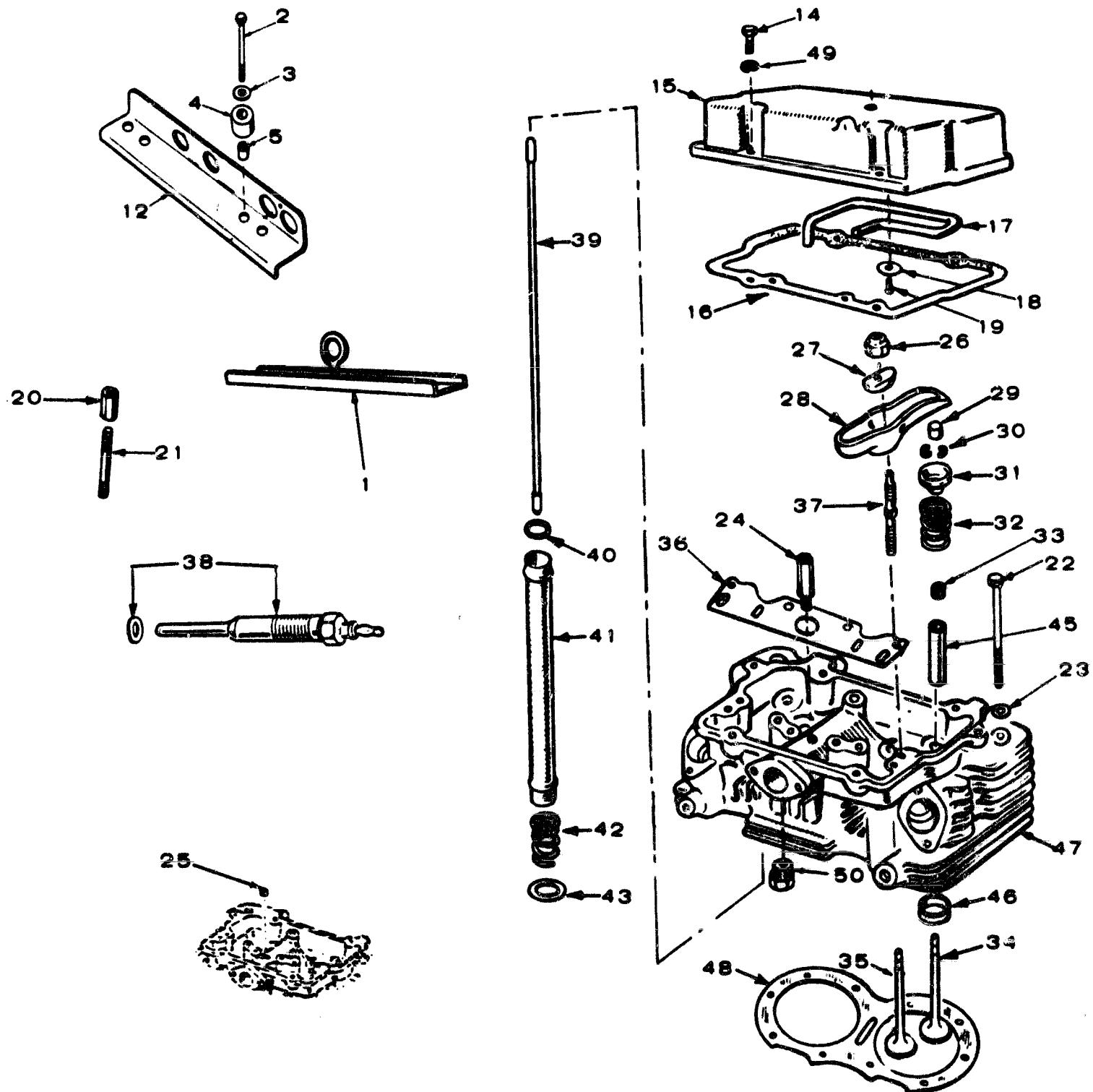


CYLINDER BLOCK AND OIL BASE

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	110-1332	1	Block Assembly, Cylinder (Includes parts marked *)	20	526-0035	2	*Washer, Flat (17/32" ID x 7/8" OD x 1/8 Thick)
2	517-0103	1	*Plug, Core Hole Begin Spec T	21	101-0342	2	*Bolt, Cap - Hex Head (Special)
3	517-0053	1	*Plug, Camshaft Opening	22	123-0645	1	*Tube, Breather - Spec A Through S
4	101-0365	1	*Bearing, Precision - Camshaft Rear	23	509-0086	1	Seal, Oil Crankshaft Rear
5	101-0363	1	*Bearing, Precision - Camshaft Front	24	123-0667	1	Gasket, Oil Fill Tube
6	516-0072	4	*Pin, Crankshaft Thrust Washer	25	TUBE, OIL FILL 123-1086	1	Begin Spec S
7	101-0386	1	*Gasket and Shim Kit, Bearing	26	123-0681	1	Specs A Through R
8	BEARING, PRECISION - MAIN (Front and Rear)			26	850-0045	2	Washer, Lock - Spring (5/16")
	101-0359	2	*Standard	27	800-0026	2	Screw, Cap - Hex Head (5/16-18 x 3/4")
	101-0359-02	2	.002" Undersize	28	CAP AND INDICATOR (Includes Gasket)		
	101-0359-10	2	.010 Undersize	123-1056	1	Begin Spec S	
	101-0359-20	2	.020" Undersize	123-0698	1	Specs A Through R	
	101-0359-30	2	.030" Undersize	29	123-0191	1	Gasket, Oil Fill Cap
9	101-0337	1	*Plate, Rear Bearing	30	102-0475	1	Gasket, Oil Base
10	104-0420	2	*Washer, Thrust - Crankshaft	31	102-0477	1	Base, Oil
11	805-0019	6	*Bolt, Plate - Rear Bearing Plate - Special	32	850-0055	10	Washer, Lock - Spring (7/16")
12	526-0245	6	*Washer, Flat (.391 ID x .625 OD x .0598 Thick)	33	800-0072	10	Screw, Cap - Hex Head (7/16-14 x 1-1/4")
13	120-0586	1	*Tube, Crankcase Oil - Front	34	505-0056	1	Plug, Oil Drain (1/2")
14	120-0585	1	*Tube, Crankcase Oil - Rear	35	123-1283	1	Filter, Breather Specs A Through R
15	101-0364	1	*Bearing Precision - Camshaft Center	36	123-0787	1	Cap - Breather Tube Specs A Through S
16	516-0141	2	*Pin, Gear Cover Alignment	37	TAPPET, VALVE		
17	516-0149	2	Pin, Center Main Bearing Housing	115-0195	8	*Begin Spec P	
18	BEARING HALF, PRECISION - CENTER MAIN			115-0132	8	Specs A thru N	
	101-0361	2	*Standard				
	101-0361-02	2	.002" Undersize				
	101-0361-10	2	.010" Undersize				
	101-0361-20	2	.020" Undersize				
	101-0361-30	2	.030" Undersize				

* - Parts Included in 110-1332 Cylinder Block Assembly

CYLINDER HEAD, VALVE AND ROCKER



CYLINDER HEAD, VALVE AND ROCKER

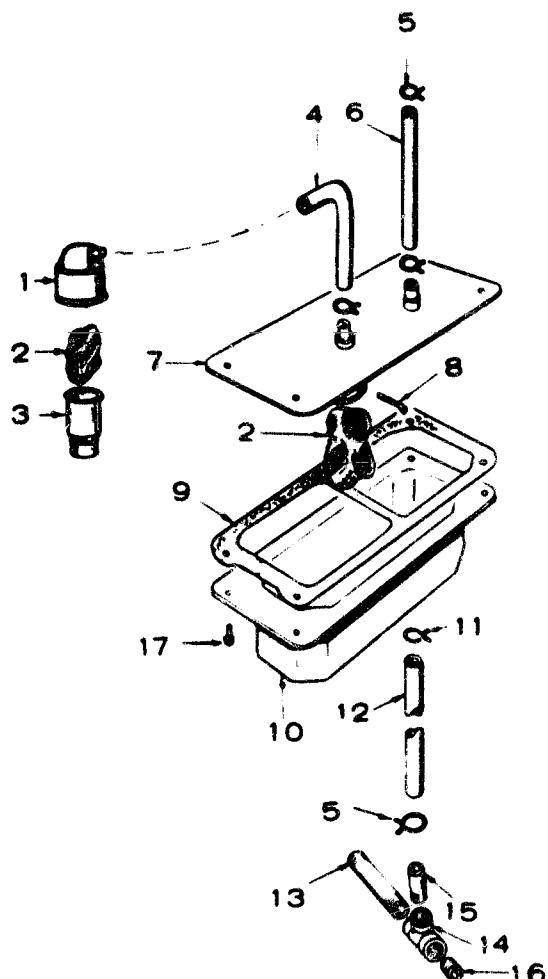
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1		1	Bar, Lifting - Specs A thru H (Order 403-0690 Bracket (2) 800-0091 Screws (2) 850-0080 Lock Washers)	32	110-1221	8	†Spring, Valve
				33	509-0132	4	Seal, Oil - Valve Stem
				34	110-1278	4	†Valve, Exhaust
				35	110-1871	4	Valve, Intake
2	800-0094	2	Screw, Cap - Hex Head (1/2-13 x 2")	36	115-0196	2	†Guide, Push Rod
3	526-0100	2	Washer, Flat (9/16" ID x 1-3/8" OD x 7/64" Thk)	37	115-0152	8	†Stud, Rocker Arm
4	402-0081	2	Cushion, Vibration	38	333-0106	4	Kit, Glow Plug (Includes Gasket 110-0546)
5	402-0362	2	Spacer	39	115-0149	8	Rod, Push
12	403-0690	1	Bracket, Lifting	40	509-0084	8	Seal, Push Rod Shield
14	800-0030	8	Screw, Cap - Hex Head (5/16-18 x 1-1/4")	41	115-0151	8	Shield, Push Rod
15	115-0134	2	Cover Assembly, Rocker (Includes Parts Marked "")	42	115-0146	8	Spring, Push Rod Shield
16	115-0130	2	**Gasket, Rocker Cover Mtg.	43	115-0155	8	Washer, Flat - Push Rod Shield
17	120-0628	2	**Line, Oil	45	GUIDE, VALVE		
18	526-0130	2	**Washer, Flat (17/64" ID x 1" OD x 1/16" Thk)	110-1869		4	†Intake
19	809-0042	2	**Screw, Self Tapping - Round Head (#10 x 3/8")	110-1870		4	†Exhaust
20	403-0620	2	Nut, Extension - Spec A through H	46	INSERT, VALVE SEAT		
21	520-0626	2	Stud, Cylinder Head - Spec A through H	110-1268		8	†Standard
22	SCREW, CAP - HEX HEAD			110-1268-02			.002" Oversize
	110-1264	10	Special	110-1268-05			.005" Oversize
	800-0503	12	(3/8-16 x 1-3/4")	110-1268-10			.010" Oversize
23	526-0174	12	Washer, Flat (.406" ID x .781" OD x .1345" Thk)	110-1268-25			.025" Oversize
24	123-1140	2	†Vent, Standpipe - Begin Spec S	47	HEAD ASSEMBLY, CYLINDER (Replacement)		
25	505-0008	2	*Plug, Pipe - Spec A through N (Replacement Part with Cylinder Head)	Without Valves (Includes Parts Marked *)			
25	505-0274	2	†Plug, Hex - Begin Spec P	110-2941		2	Begin Spec P
26	115-0150	8	Locknut, Rocker Arm	110-2701		2	Prior to Spec P
27	115-0127	8	Ball, Pivot	With Valves (Includes Parts Marked †)			
28	ARM, ROCKER			110-2940		2	Begin Spec P
	115-0128	4	Exhaust Valves	110-2993		2	Prior to Spec P
	115-0129	4	Intake Valves	48	110-1223	2	Gasket, Cylinder Head
29	110-0859	8	Cap, Valve Stem	49	850-0045	8	Washer, Lock - Spring (5/16")
30	110-0858	16	†Lock, Valve Stem	50	502-0281	2	†Connector, Inverted Male
31	110-1220	8	†Retainer, Valve Spring				

* - Parts Included in 110-2701 & 110-2941 Assembly.
† - Parts Included in 110-2940 & 110-2993 Assembly.

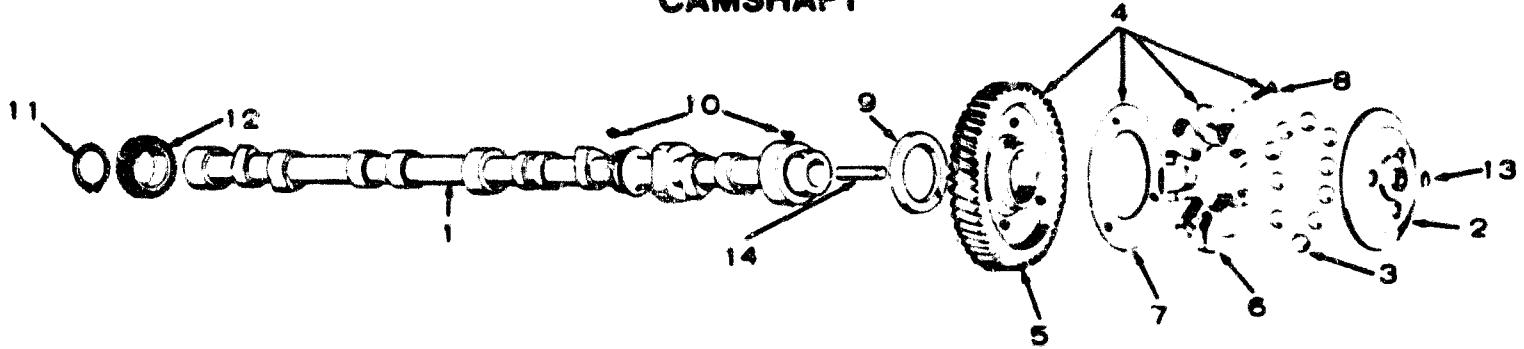
** - Parts Included in Rocker Cover Assembly

BREATHER DAMPER (SPEC S)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1		1	Cap, Breather Tube (See Cylinder Block & Oil Base)
2	123-1283	2	Filter, Breather
3		1	Tube, Breather (See Cylinder Block & Oil Base)
4	503-0562	1	Hose, Rubber
5	503-0170	4	Clamp, Hose
6	503-0563	1	Hose, Rubber
7	123-1047	1	Cover, Breather Pulsation Damper
8	516-0177	1	Pin, Cotter - Filter Retainer
9	123-1049	1	Gasket, Breather Damper
10	123-1061	1	Damper, Breather
11	503-0197	2	Clamp, Hose
12	503-0564	1	Hose, Rubber - Overflow
13	505-0681	1	Nipple, Pipe - Oil Drain
14	505-0682	1	Tee, Pipe - Oil Drain
15	505-0683	1	Nipple, Half - Pipe
16		1	Plug, Pipe - Oil Drain (See Cylinder Block & Oil Base)
17	815-0172	4	Screw, Cap - Hex Head (#10-32 x 1")



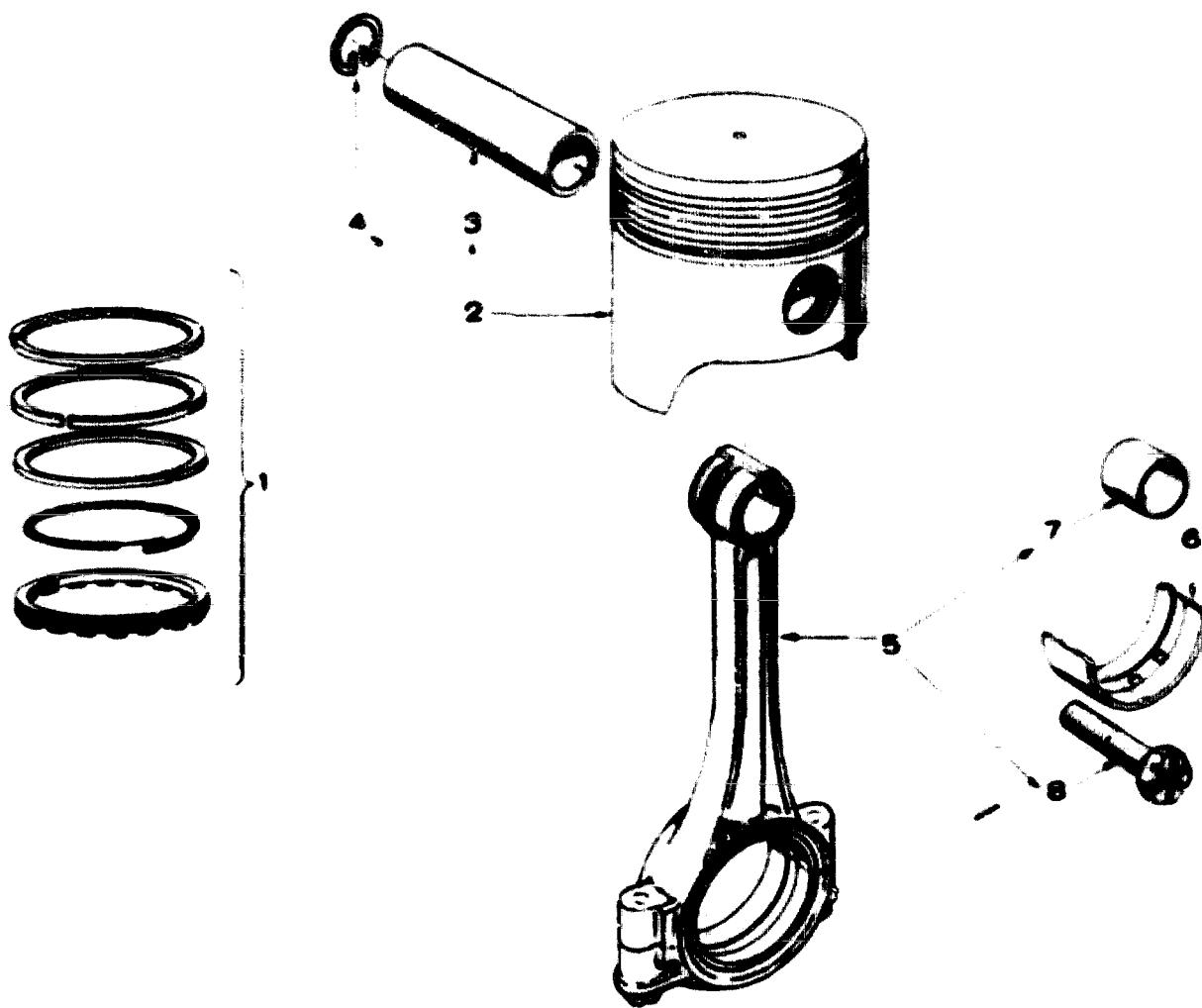
CAMSHAFT



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CAMSHAFT - INCLUDES PIN 105-0240 105-0274	1 1	Spec A Thru N Begin Spec P
2	150-0775	1	Cup, Governor
3	510-0046	10	Ball, Fly
4	105-0218	1	Gear Assembly, Camshaft (Consists of Following Parts Marked with *)
5	105-0465	1	*Gear, Camshaft
6	150-1674	1	*Spacer, Governor Ball
7	150-0773	1	*Plate, Governor Ball
8	815-0506	3	*Screw, Governor Ball Spacer
9	105-0205	1	Washer, Thrust
10	515-0001	2	Kgy, Woodruff
11	\$18-0195	1	Ring, Retaining
12	147-0142	1	Gear, Drive - Injection Pump
13	150-0078	1	Ring, Retaining
14	150-0075 150-1842	1 1	Pin, Center - Camshaft Kit, Governor Spacer (Consists of 1 - 150-1674 Spacer, 3 - 815-0506 Screw)

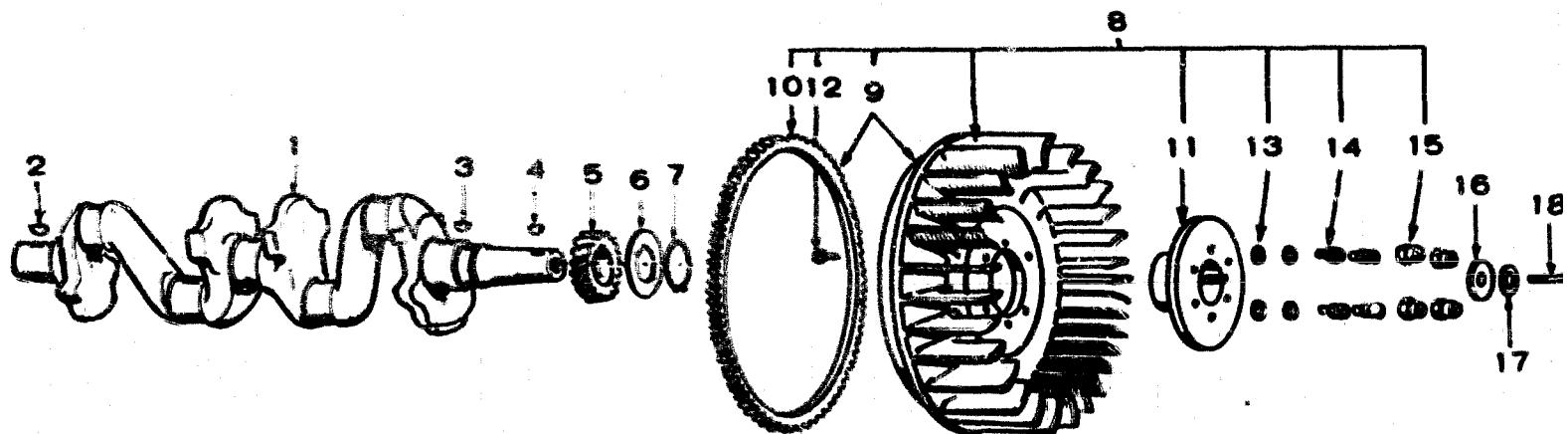
* - Included in Camshaft Gear Assembly.

PISTON AND ROD



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	RING SET, PISTON			3	PIN, PISTON	4	Standard
	113-0130	4	Standard		112-0083		
	113-0130-05	4	.005" Oversize	4	112-0085	8	Ring, Retaining - Pin
	113-0130-10	4	.010" Oversize	5	114-0168	4	Rod Assembly, Connecting (Forged)
	113-0130-20	4	.020" Oversize	6	BEARING HALF, CONNECTING ROD		
	113-0130-30	4	.030" Oversize		114-0164	8	Standard
	113-0130-40	4	.040" Oversize		114-0164-02	8	.002" Undersize
2	PISTON AND PIN (INCLUDES RETAINING RINGS)		Begin Spec P		114-0164-10	8	.010" Undersize
	112-0109	4	Standard		114-0164-20	8	.020" Undersize
	112-0109-05	4	.005" Oversize		114-0164-30	8	.030" Undersize
	112-0109-10	4	.010" Oversize	7	114-0170	8	Bushing, Piston Pin - Connecting Rod - Semi-Finished
	112-0109-20	4	.020" Oversize		8	805-0012	Bolt Place (Special)
	112-0109-30	4	.030" Oversize				
	112-0109-40	4	.040" Oversize				
	112-0103	4	Spec A Through N Standard				
	112-0103-10	4	.010" Oversize				
	112-0103-20	4	.020" Oversize				
	112-0103-30	4	.030" Oversize				
	112-0103-40	4	.040" Oversize				

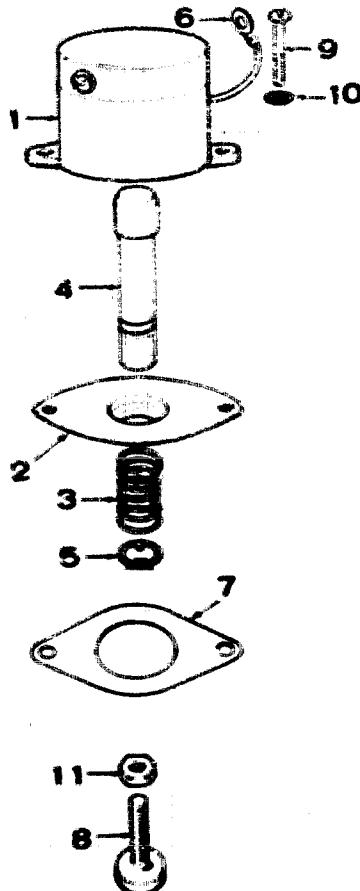
CRANKSHAFT AND FLYWHEEL



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	104-0463	1	Crankshaft
2	515-0003	1	Key, Crankshaft
3	515-0001	1	Key, Gear
4	515-0153	1	Key, Flywheel
5	104-0418	1	Gear, Crankshaft
6	104-0416	1	Washer, Retaining
7	518-0188	1	Ring, Lock
8	134-1405	1	*Flywheel Assembly (Includes Ring Gear & Hub Assembly)
9	134-1404	1	*Flywheel (Includes Ring Gear)
10	104-0423	1	Gear, Ring
11	134-1401	1	Hub, Flywheel
12	801-0054	4	Screw, Cap - Hex Head (3/8-24 x 2")
13	526-0187	4	Washer, Flat (19/32" ID x 1-1/8" OD x .16 Ga. Thk)
14	104-0543	4	Spacer and Belleville Washer Assembly
15	115-0150	4	Nut, Hex - Locking (3/8-24)
16	526-0185	1	Washer, Flat (15/32" ID x 1-1/2" OD x 3/8" Thk)
17	801-0055	1	Washer, Lock - Spring (7/16")
18	800-0500	1	Screw, Cap - Hex Head (7/16-14 x 5-1/2")

NOTE: Flywheel differs on engines with Flywheel Alternator and/or Clutch. See Optional parts groups.

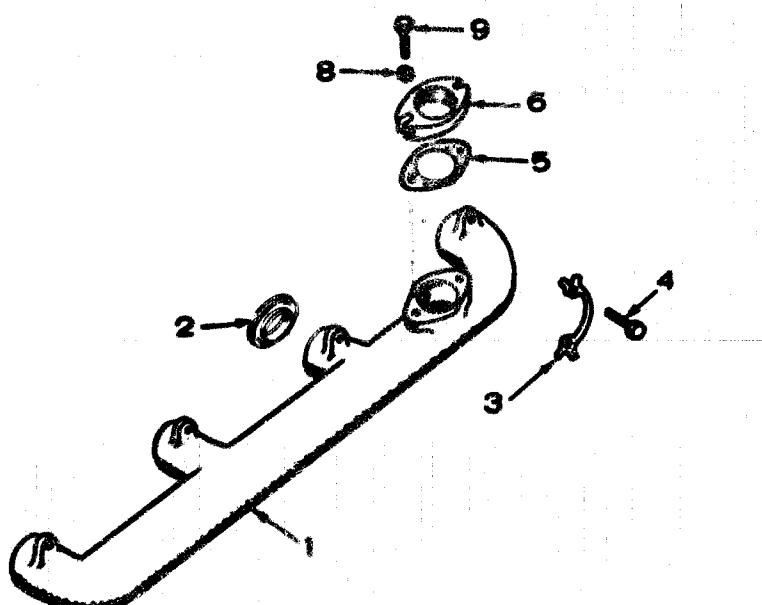
STOP SOLENOID



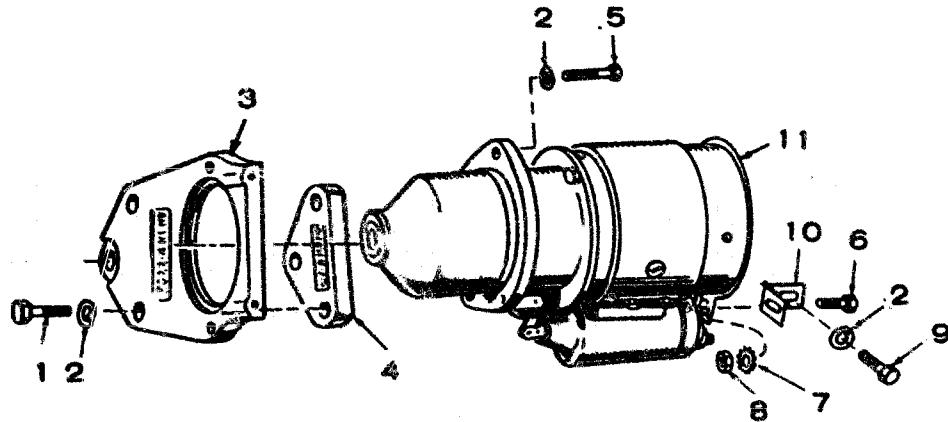
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	307-0628	1	Solenoid, Stopping
2	306-0162	1	Retainer, Plunger
3	306-0161	1	Spring, Plunger
4	306-0159	1	Plunger
5	518-0203	1	Ring, Retaining
6	336-0706	1	Lead, Solenoid Ground
7	150-0963	1	Gasket, Solenoid Mounting
8	306-0242	1	Screw, Cap - Hex Head (1/4-20 x 1")
9	812-0148	2	Screw, Machine - Round Head (1/4-20 x 1/2")
10	850-0040	2	Washer, Lock - Spring (1/4")
11	862-0001	1	Nut, Hex (1/4-20)

EXHAUST MANIFOLD

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	154-0714	1	Manifold, Exhaust
2	154-0463	4	Gasket, Exhaust Manifold
3	154-1665	4	Tab, Lock
4	114-0022	8	Screw, Cap - Hex Head Hardened (5/16-18 x 1-3/4")
5	154-0738	1	Gasket, Outlet
6	155-0782	1	Flange, Outlet
8	526-0174	2	Washer, Flat (.408" ID x .781" OD x .1345 Thk)
9	800-0052	2	Screw, Cap - Hex Head (3/8-16 x 1-1/2")

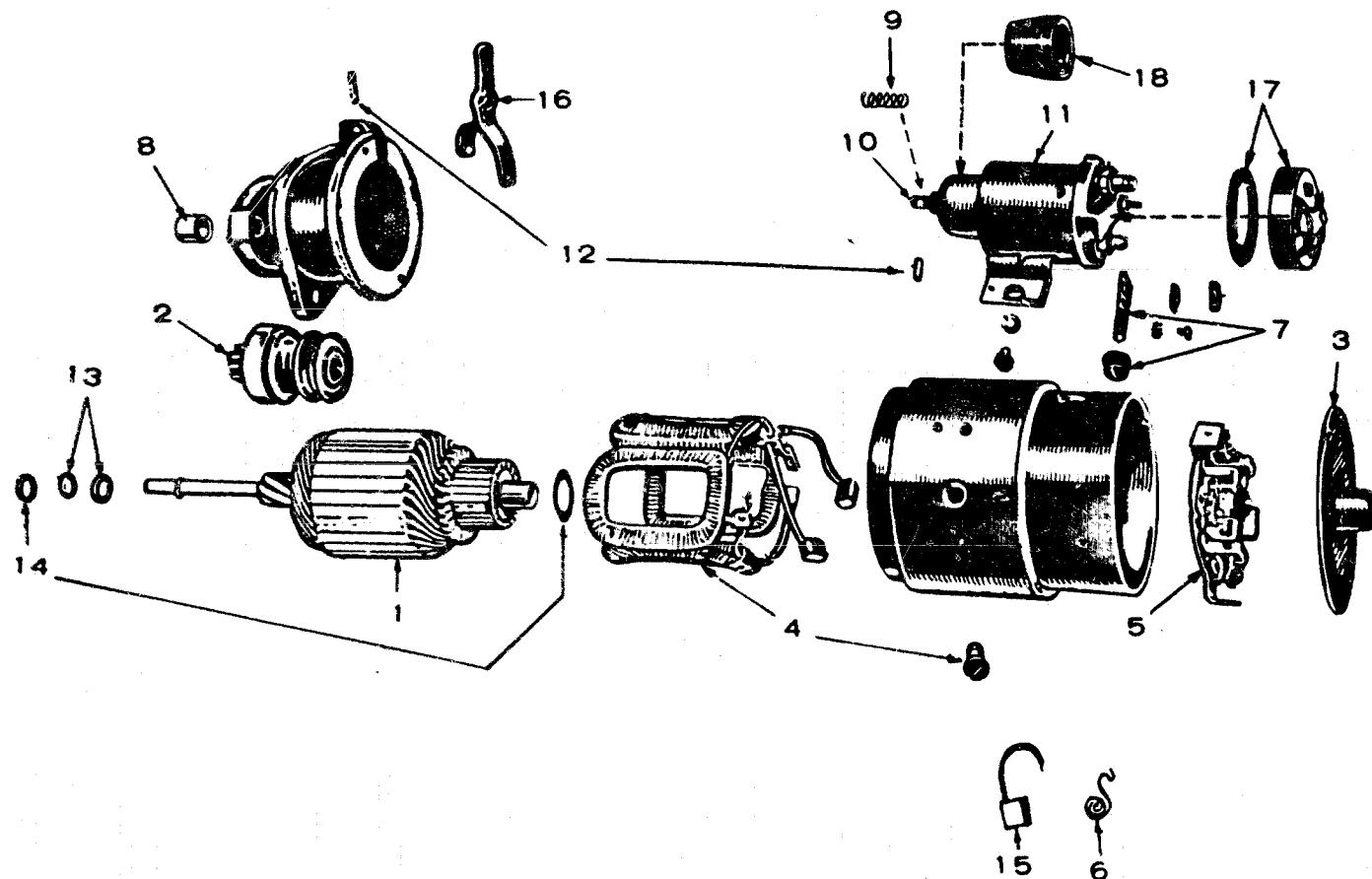


STARTER



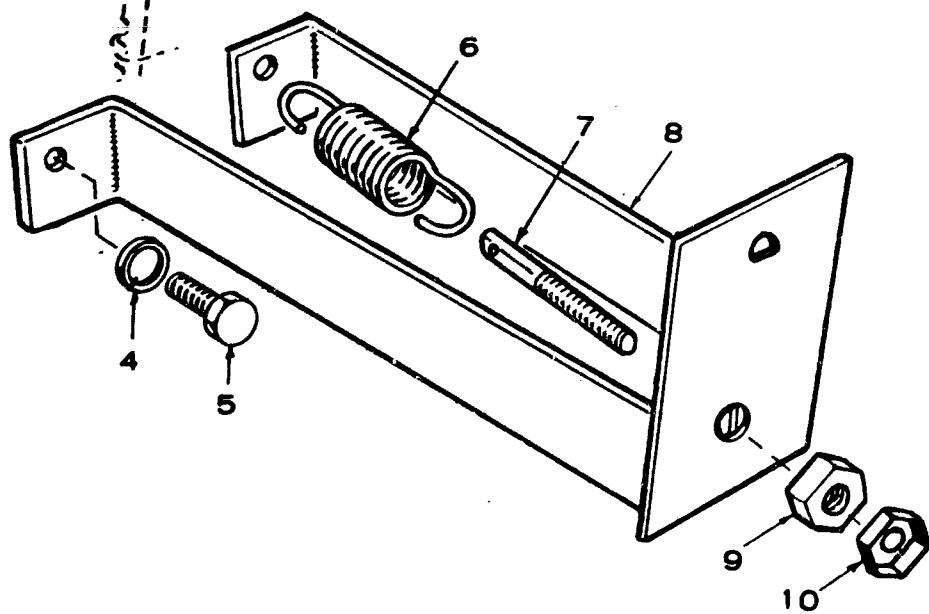
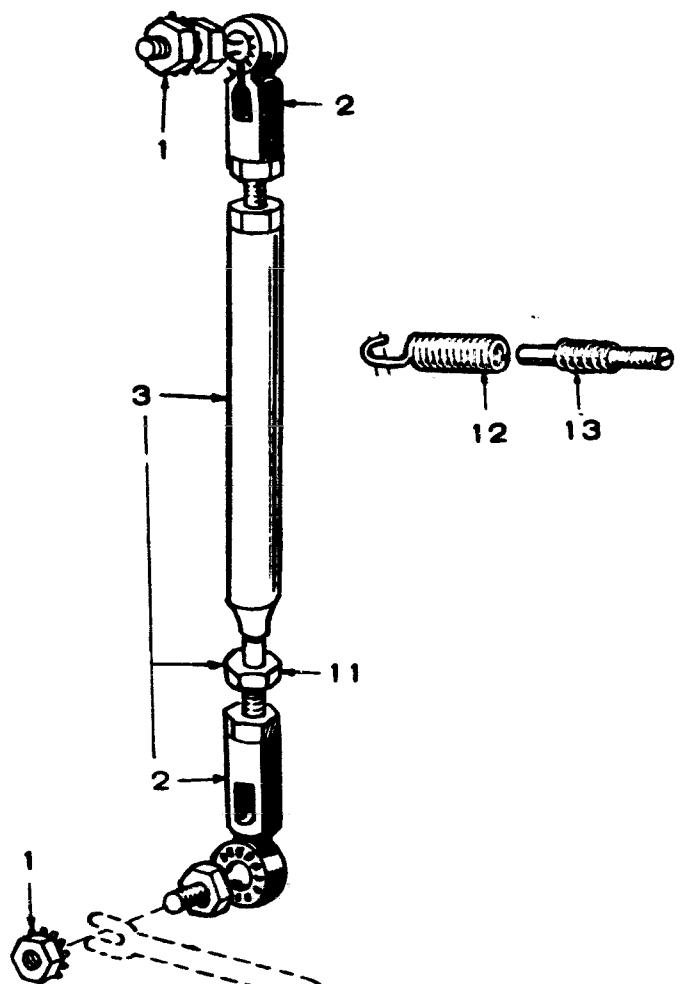
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-0054	3	Screw, Cap - Hex Head (3/8-16 x 2")
2	850-0050	7	Washer, Lock - Spring (3/8")
3	191-0512	1	Flange, Mounting
4	191-0311	1	Spacer, Flange
5	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
6	800-0046	1	Screw, Cap - Hex Head (3/8-16 x 1/2")
7	856-0010	1	Washer, Lock - EIT (3/8")
8	864-0003	1	Nut, Hex (3/8-16)
9	800-0052	2	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
10	191-0365	1	Bracket, Support
11	MOTOR, STARTER (See Separate Group for Components)		
	191-0324	1	12 Volt
	191-0443	1	24 Volt (optional)

STARTER PARTS



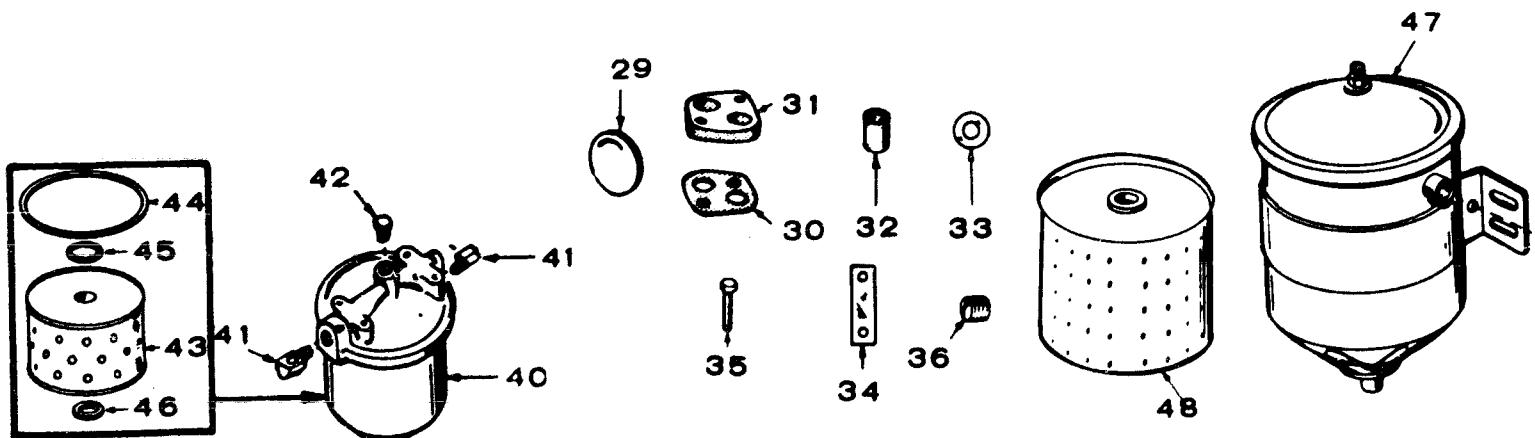
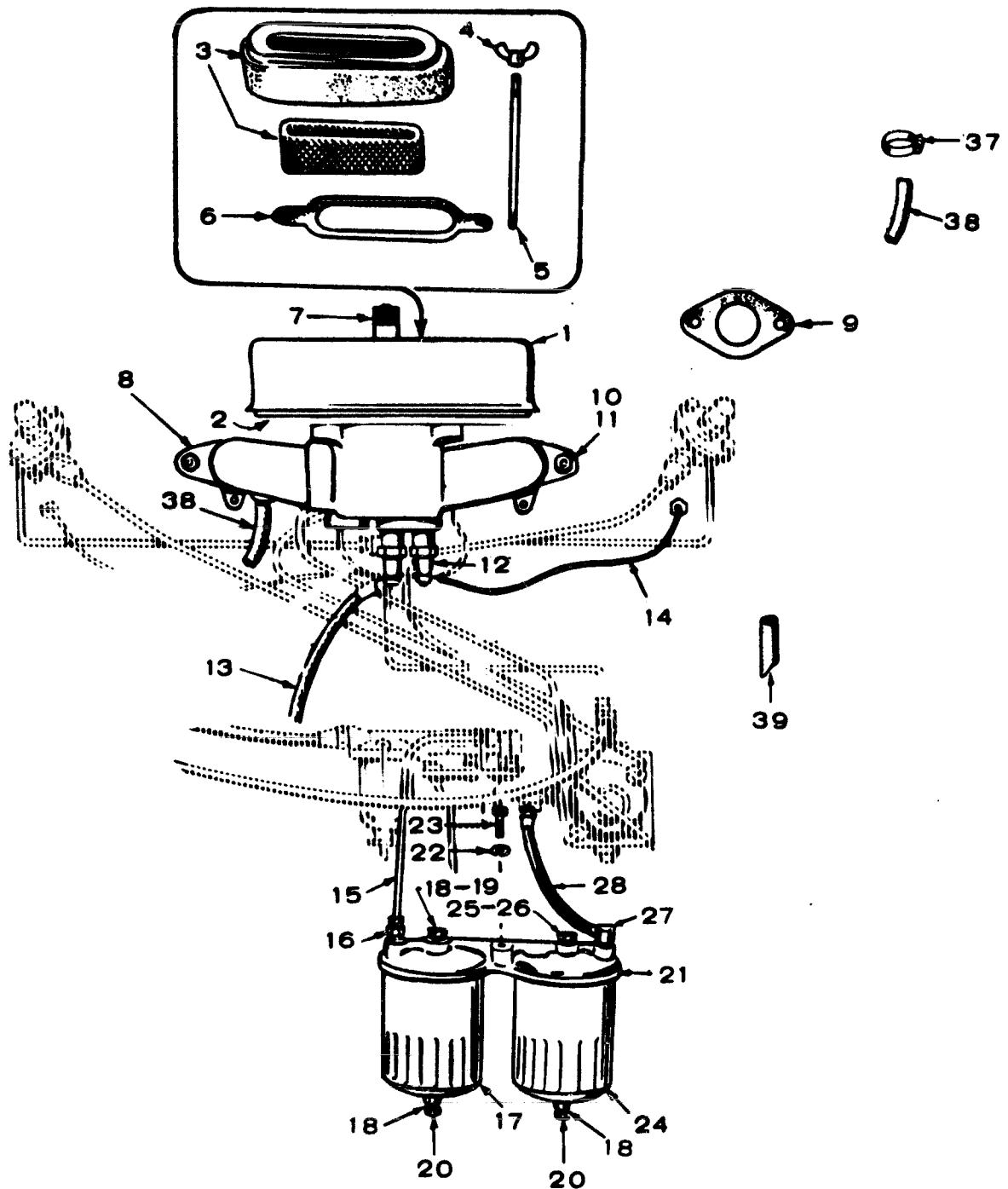
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	191-0324	1	Starter
1	191-0712	1	Armature
2	191-0432	1	Clutch
3	191-1023	1	Head Assembly, Commutator End
4	191-1024	1	Coil Package, Field
5	191-1025	1	Plate Assembly, Brush
6	191-1020	1	Spring Set, Brush (Set of 4)
7	191-1263	1	Connector Package
8	191-0497	1	Bearing (Bronze), Drive End
9	191-1027	1	Spring, Plunger
10	191-1028	1	Core Assembly, Moving
11	191-0433	1	Switch, Solenoid
12	191-1029	1	Yoke Parts Package
13	191-1030	1	Stop and Lock Ring Package, Pinion
14	191-1031	1	Thrust Washer Package, Armature (Use as Required)
15	191-0434	1	Brush Set, Service
16	191-1032	1	Yoke
17	191-0468	1	Cover, Solenoid
18	191-1134	1	Boot, Rubber - Part of Moving Core Assembly

GOVERNOR



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	870-0131	2	Nut, Hex Locking (#10-32)
2	JOINT, BALL 150-0939 150-0974	2	Begin Spec R Specs A Through Q
3	LINKAGE ASSEMBLY 150-1132 150-0831	1	Begin Spec R Specs A Through Q
4	850-0040	2	Washer, Lock - Spring (1/4")
5	800-0005	2	Screw, Cap - Hex Head (1/4-20 x 3/4")
6	150-1084	1	Spring, Governor - Begin Spec R
7	150-1083	1	Stud, Governor Adjusting Begin Spec R
8	BRACKET ASSEMBLY 150-1110 150-0814	1	Begin Spec R Specs A Through Q
9	NUT, HEX - ADJUSTING 862-0003 104-0091	1	Begin Spec R (3/8-16) Specs A Through Q (3/8-24)
10	NUT, HEX - LOCKING (PALNUT) 870-0133 870-0130	1	Begin Spec R (3/8-16) Specs A Through Q (3/8-24)
11	870-0053	2	Nut, Hex (#10-32)
12	150-0846	1	Spring, Governor - Specs A Through Q
13	150-0822	1	Stud, Governor Adjusting Specs A Through Q

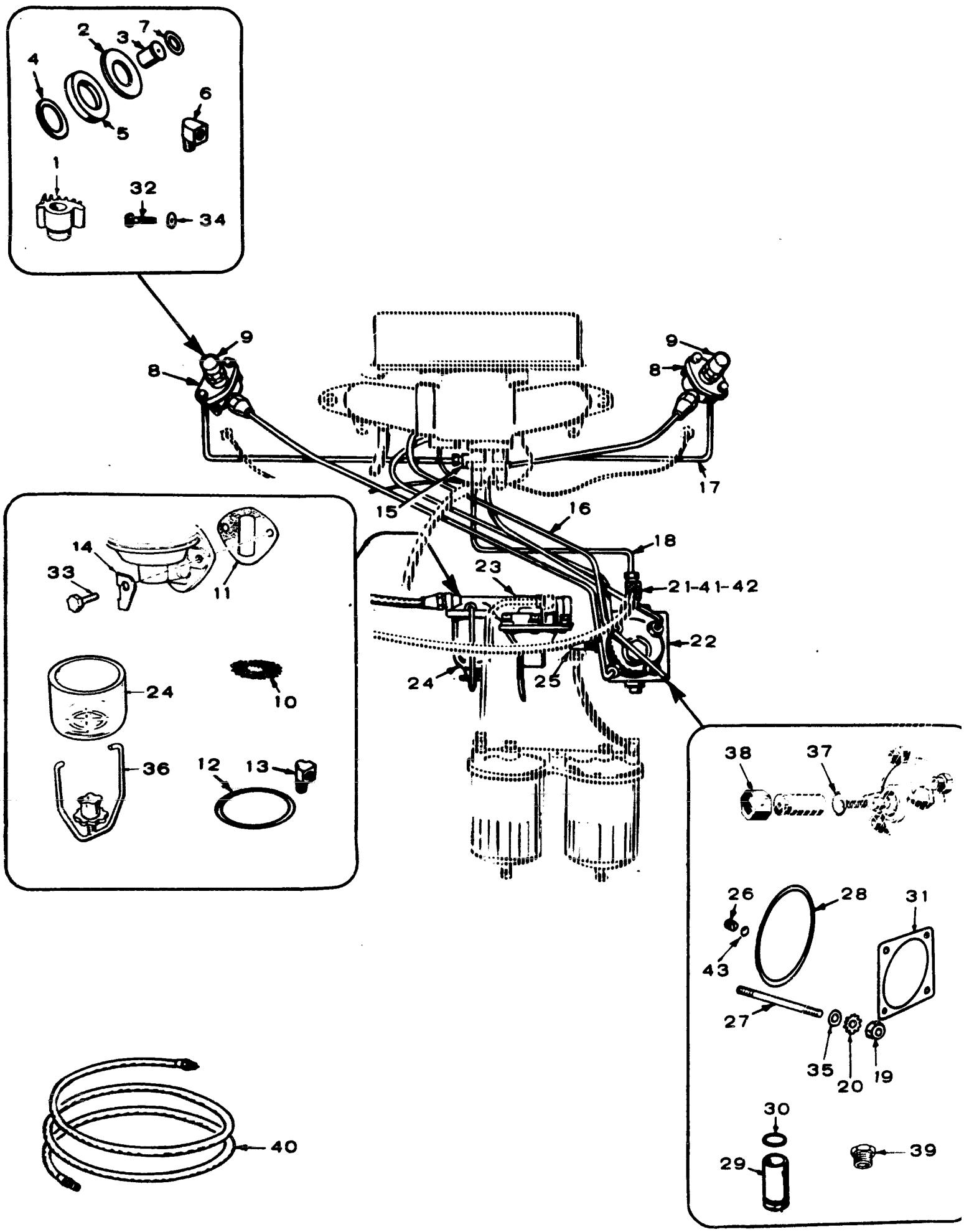
AIR CLEANER AND FUEL FILTER



AIR CLEANER AND FUEL FILTER

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	COVER, AIR CLEANER			26	801-0053	1	Screw, Cap - Hex Head (3/8-24 x 2")
	140-1194	1	Begin Spec T				Begin Spec S
	140-0594	1	Specs A Through S	27	502-0099	1	Elbow, Reducer - Secondary
2	140-0595	1	Pan, Air Cleaner				Fuel Filter Outlet
3	140-0636	1	Element, Air Cleaner (Includes Retainer)				Begin Spec S
4	865-0020	2	Nut, Wing	28	LINE, FUEL - SECONDARY FILTER TO INJECTION PUMP		
5	520-0621	2	Stud, Air Cleaner	501-0129	1	Begin Spec S	
6	140-0584	1	Gasket, Air Cleaner	501-0091	1	Specs A Through R	
7	140-0961	1	Indicator, Restriction	29	517-0104	1	Plug, Core Hole
8	154-1378	1	Manifold, Intake				Intake Manifold - Begin Spec R
9	154-0733	2	Gasket, Intake Manifold	30	140-0706	1	Gasket, Manifold Heater
10	STUD, MANIFOLD MOUNTING						Insulator
	520-0011	2	1-7/16" Long	31	140-0705	1	Plate, Manifold Heater Mtg.
	520-0338	2	2-7/8" Long	32	508-0103	2	Sleeve, Insulator - Manifold
11	870-0137	4	Nut, Hex - Locking (5/16-24)				Heater
12	154-0712	2	Heater, Manifold - 12 Volt (Includes Gasket)	33	508-0102	2	Washer, Insulator - Manifold
13	336-1331	1	Lead, Air Heater to Solenoid in Control	34	332-0829	1	Heater
14	LEAD, GLOW PLUG TO AIR HEATER			35	114-0023	2	Strap, Jumper - Manifold
			Blade Type Terminal (Used on Late Models)				Heater
	336-1504	2	Number 1 and 4 Cylinders	36	505-0180	1	Screw, Cap - Hex Head (1/4-20 x 1-1/4") Manifold
	336-1505	2	Number 2 and 3 Cylinders	37	503-0171	1	Heater Mounting
			Round Type Terminal (Used on Early Models)				Plug, Intake Manifold (1/4" Countersunk)
	336-1314	1	Number 1 Cylinder	38	503-0328	1	Clamp, Breather Hose
	336-1313	2	Number 2 and 3 Cylinder	39	123-0732	1	Specs A Through R
15	LINE, FUEL PUMP TO SECONDARY FILTER			40	149-0408	1	Hose, Breather
	149-1189	1	Begin Spec S				Specs A Through R
	149-0806	1	Specs A Through R				Tube, Nylon - Breather
16	502-0003	1	Connector, Primary Fuel Filter Inlet - Begin Spec S	41	502-0041	2	Hose to Manifold
17	122-0325	1	Filter, Fuel - Primary - Begin Spec S (Includes 1-526-0068)	42	149-0769	1	Specs A Through R
18	526-0068	3	Washer, Flat (29/64" ID x 3/4" OD x 1/16" Thk) - Begin Spec S	43	149-0428	1	Filter, Fuel - Secondary
19	801-0074	1	Screw, Cap - Hex Head (7/16-20 x 1-3/4") - Begin Spec S	44	149-0456	1	(Includes Cartridge) - Specs
20	502-0080	2	Plug, Drain - Fuel Filter - Begin Spec S	45	149-0455	1	A Through R
21	149-1185	1	Adapter, Fuel Filters - Begin Spec S	46	149-0493	1	Cartridge, Secondary Filter
22	850-0045	3	Washer, Lock - Spring (5/16") - Begin Spec S	47	149-1078	1	Specs A Through R
23	800-0026	3	Screw, Cap - Hex Head (5/16-18 x 3/4") - Begin Spec S	48	149-0846	1	Gasket, Secondary Filter
24	122-0326	1	Filter, Fuel - Secondary - Begin Spec S (Includes 1-526-0068)				Cartridge to Retainer
25	526-0066	1	Washer, Flat (25/64" ID x 9/16" OD x 1/16" Thk) - Begin Spec S				Specs A Through R

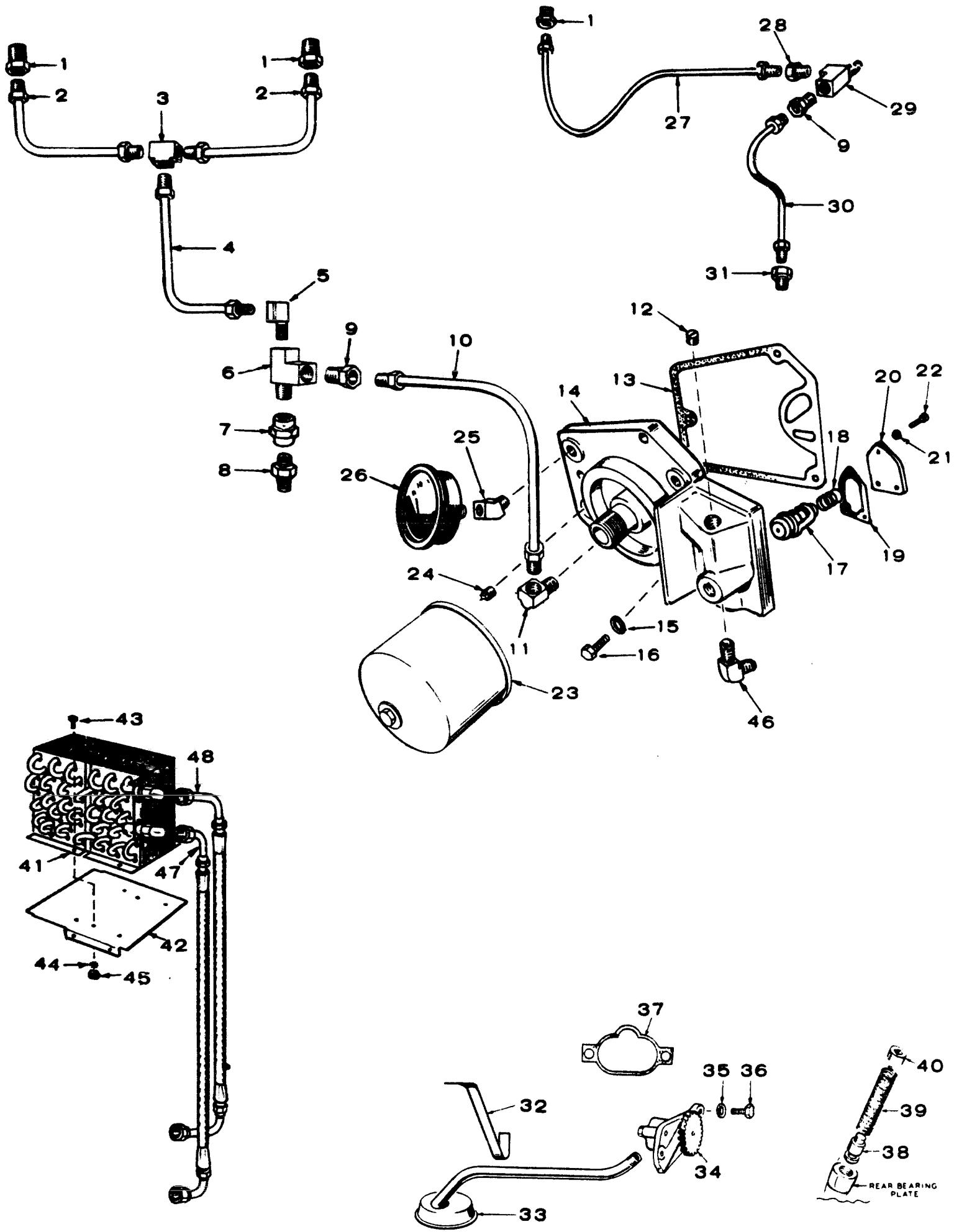
FUEL PUMP AND INJECTION SYSTEM



FUEL PUMP AND INJECTION SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149-1046	1	Repair Kit, Fuel Pump (Includes Diaphragm and Gaskets) <i>Note: Does not apply for AC pumps</i>	22	PUMP, INJECTION - FUEL		
1	ADAPTER, INJECTION NOZZLE			147-0232		1	Begin Spec R (Includes Buttons 1,2,12,13)
	147-0132	2	Number 2 and 4 Cylinders	147-0231		1	Specs A Through Q (Includes Buttons 1,2,12,13 and Injection Lines)
	147-0133	2	Number 1 and 3 Cylinders	23	149-1704	1	Pump, Transfer - Fuel
2	147-0043	4	Gasket, Nozzle Heat Shield (Asbestos)	24	BOWL, FUEL PUMP - GLASS (Measure for Correct Length)		
3	147-0268	4	Nozzle Only (Component of Nozzle and Holder Assembly)	149-0116		1	2-3/8" Long
4	110-0419	4	Gasket, Nozzle Heat Shield to Head (Copper)	149-1168		1	1-5/8" Long
5	147-0044	4	Shield, Nozzle Heat (Steel)	25	ELBOW, INJECTION PUMP INLET		
6	ELBOW, INVERTED - FUEL RETURN LINE			502-0039		1	Begin Spec S
	502-0065	2	45° - Number 1 and 4 Cylinders	502-0054		1	Specs A Through R
	502-0002	2	90° - Numbers 2 and 3 Cylinders	26	BUTTON, INJECTION PUMP PLUNGER		
7	147-0243	4	Gasket, Nozzle	147-0147		1	119 - Marked 1 or A
8	147-0141	4	Flange, Injection Nozzle Hold-down	147-0148		1	116 - Marked 2 or B
9	147-0136	4	Nozzle and Holder Assembly	147-0149		1	113 - Marked 3 or C
10	149-0463	1	Screen, Fuel Pump Filter	147-0150		1	110 - Marked 4 or D
11	149-0792	1	Gasket, Fuel Transfer Pump Mounting	147-0151		1	107 - Marked 5 or E
12	149-0517	1	Gasket, Fuel Pump Bowl	147-0161		1	104 - Std. Marked 11 or No Mark
13	502-0002	2	Elbow, Fuel Pump Inlet and Outlet	147-0152		1	101 - Marked 6 or F
14	149-1307	2	Washer, Flange - Fuel Pump Mounting	147-0153		1	.098 - Marked 7 or H
15	502-0245	1	Adapter, Return Lines	147-0154		1	.095 - Marked 8 or J
16	LINE, INJECTION PUMP TO NOZZLE		Begin Spec R	147-0155		1	.092 - Marked 9 or K
	149-1150	1	Number 1 Cylinder	147-0156		1	.089 - Marked 10 or L
	149-1151	1	Number 2 Cylinder	147-0190		1	.122 - Marked 12 or M
	149-1152	1	Number 3 Cylinder	147-0189		1	.125 - Marked 13 or N
	149-1153	1	Number 4 Cylinder	147-0188		1	.128 - Marked 14 or P
	149-0963	1	Specs A Through Q	147-0187		1	.131 - Marked 15 or R
	149-0964	1	Number 1 Cylinder	147-0186		1	.134 - Marked 16 or S
	149-0965	1	Number 2 Cylinder	27	520-0129	4	Stud, Injection Pump Mounting
	149-0966	1	Number 3 Cylinder	28	509-0094	1	Seal, O-Ring - Injection Pump to Crankcase
17	LINE, NOZZLE FUEL RETURN		Begin Spec P	29	147-0182	1	Tappet, Injection Pump Gasket, O-Ring - Injection Pump Tappet
	149-1060	1	Number 4 Cylinder	30	147-0196	1	Shim Kit, Injection Pump Mtg
	149-1059	2	Specs A Through N	31	147-0145	1	Screw, Cap - Hex Head (5/16-18 x 2-3/4")
	149-1061	1	Number 1 Cylinder	32	800-0508	8	Screw, Cap - Hex Head (5/16-18 x 7/8")
	149-0909	1	Number 2 and 3 Cylinders	33	800-0027	2	Washer, Flat (11/32 ID x 23/32 OD x 10 GA)
	149-0908	2	Number 4 Cylinder	34	526-0122	8	Washer, Flat (21/64 ID x 9/16 OD x 1/16 Thk)
	149-0910	1	Number 1 Cylinder	35	526-0022	4	Washer, Flat (3-5/8" Long)
18	LINE INJECTION PUMP TO FUEL RETURN LINES TEE		Number 2 and 3 Cylinders	36	149-1006	1	2-7/8" Long
	149-1062	1	Specs A Through N	149-1169		1	Gasket, Delivery Valve Cap
	149-0949	1	Number 4 Cylinder	37	147-0254	1	Cap, Delivery Valve
19	862-0015	4	Begin Spec P	38	147-0253	1	Adapter, Pipe - Bleeder Valve to Pump (Early Models)
20	850-0045	4	Specs A Through N	39	502-0176	1	Line, Fuel (28")
21	147-0183	1	Nut, Hex (5/16-18)	40	501-0007	2	Tee, Return Line (Early Models)
			Washer, Lock - Spring (5/16")	41	502-0048	1	Bushing, Pipe - Return Line Tee to Pump (Early Models)
			Valve, Bleeder - Injection Pump	42	502-0029	1	Ring, Retaining - Timing Button
				43	147-0259	1	

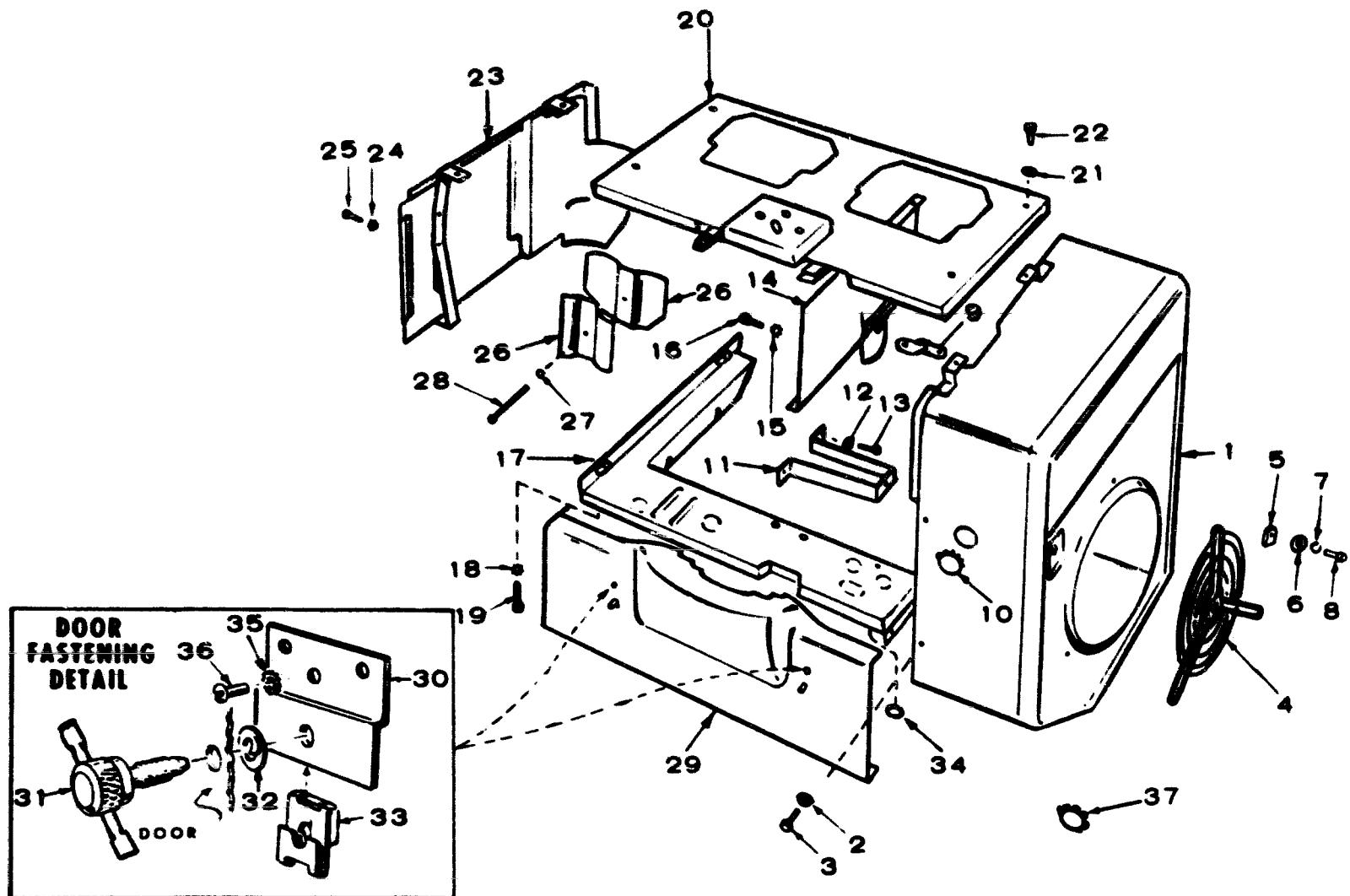
OIL SYSTEM



OIL SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CONNECTOR, OIL LINE TO CYLINDER HEAD			25	502-0053	1	Elbow, Street (45°)
	502-0281	2	Begin Spec T (Restricted)	26	193-0006	1	Gauge, Oil Pressure
	502-0281	1	Specs P Through S (Restricted)	27	LINE, CYLINDER HEAD TO CYLINDER TEE		
	502-0097	1	Specs A Through N	120-0635		1	Specs P Through S
2	120-0695	2	Line, Oil - Cylinder Head to Tee - Begin Spec T	120-0575		1	Specs A Through N
3	502-0373	1	Tee, Oil Lines - Cylinder Heads - Begin Spec T	28	CONNECTOR, OIL LINE TO TEE		
4	120-0696	1	Line, Oil - Begin Spec T	502-0097		1	Specs P Through S
5	502-0037	1	Elbow, Oil Line - Begin Spec P	502-0030		1	Specs A Through N
6	502-0242	1	Tee, Oil Lines (Cylinder Block)	29	TEE, RESTRICTED - FRONT CYLINDER HEAD		
7	502-0051	1	Coupling, Pipe - Oil Lines (Cylinder Block) - Begin Spec P	502-0282		1	Specs P Through S
8	502-0082	1	Nipple, Pipe - Hex - Begin Spec P	502-0242		1	Specs A Through N
9	CONNECTOR, INVERTED MALE (Restricted)			30	LINE, INJECTION PUMP TO CYLINDER HEAD		
	502-0274	1	Begin Spec P	120-0632		1	Specs P Through S
	502-0030	1	Specs A Through N	120-0583		1	Specs A Through N
10	LINE, ADAPTER TO CYLINDER BLOCK TEE			31	CONNECTOR, OIL LINE TO TEE		
	120-0614	1	Begin Spec P	502-0097		1	Specs P Through S
	120-0584	1	Specs A Through N	502-0030		1	Specs A Through N
11	ELBOW, INVERTED MALE - ADAPTER			32	120-0602	1	Bracket, Intake Cup
	502-0037	1	Begin Spec P	33	120-0601	1	Cup Assembly, Oil Intake
	502-0019	1	Specs A Through N	34	120-0547	1	Pump Assembly, Oil (Components Not Sold Separately)
12	505-0274	1	Plug, Pipe - Slotted	35	850-0045	2	Washer, Lock - Spring (5/16")
13	122-0246	1	Gasket, Filter Adapter	36	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
14	122-0245	1	Adapter, Oil Filter	37	120-0580	1	Gasket Kit, Oil Pump
15	850-0045	3	Washer, Lock - Spring (5/16")	38	120-0539	1	Valve, Oil By-Pass
16	800-0028	3	Screw, Cap - Hex Head (5/16-18 x 1")	39	120-0555	1	Spring, By-Pass Valve
17	309-0130	1	Thermostat, Oil Temperature	40	505-0274	1	Plug, Pipe - Oil By-Pass Valve
18	122-0242	1	Spring, Thermostat	41	102-0843	1	Cooler, Oil (NOTE: Specs A Through Q also order 501-0109 and 501-0110 Lines)
19	122-0243	1	Gasket, Thermostat Cover	42	102-0518	1	Bracket, Oil Cooler Mounting
20	122-0244	1	Cover, Thermostat	43	800-0003	4	Screw, Cap - Hex Head (1/4-20 x 1/2")
21	850-0040	3	Washer, Lock - Spring (1/4")	44	853-0013	4	Washer, Lock - Spring (1/4")
22	800-0005	3	Screw, Cap - Hex Head (1/4-20 x 3/4")	45	862-0001	4	Nut, Hex (1/4-20)
23	122-0185	1	Filter, Oil	46	502-0277	2	Elbow, Oil Cooler Line to Adapter
24	505-0057	1	Plug, Pipe - Square Head (1/8")	47	501-0109	1	Line, Flexible (Short Elbow)
				48	501-0110	1	Line, Flexible (Long Elbow)

AIR HOUSING



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	134-1447	1	"Housing, Blower	19	815-0235	2	Screw, Cap - Hex Head (1/4-20 x 5/8")
2	854-0014	6	Washer, Lock - IT (1/4")	20	134-1200	1	Cover, Cylinder Air Housing
3	815-0235	6	Screw, Cap - Hex Head (1/4-20 x 5/8")	21	526-0021	4	Washer, Flat (17/64" ID x 3/4" OD x 1/16" Thk)
4	134-1178	1	Grille and Plate	22	800-0004	4	Screw, Cap - Hex Head (1/4-20 x 5/8")
5	134-1092	3	Retainer, Grille	23	134-1051	1	Housing, Cylinder Air - Rear
6	526-0115	3	Washer, Flat (.200" ID x 3/8" OD x 1/32" Thk)	24	854-0010	2	Washer, Lock - IT (#10)
7	850-0040	3	Washer, Lock - Spring (1/4")	25	813-0097	2	Screw, Machine - Round Head (#10-32 x 5/16")
8	800-0007	3	Screw, Cap - Hex Head (1/4-20 x 1")	26	BAFFLE CENTER CYLINDER		
9	BRACKET, BLOWER HOUSING AND CYLINDER AIR HOUSING COVER			134-1097		1	Injection Pump Side
	134-1703	1	Front	134-1098		1	Opposite Side of Injection Pump
	134-1704	1	Back	27	854-0014	1	Washer, Lock - IT (1/4")
10	517-0035	1	Plug, Dot Button - Begin Spec R	28	812-0165	1	Screw, Machine - Round Head (1/4-20 x 4-1/2")
11	134-1088	1	Support, Blower Housing and Grille	29	134-1202	1	Panel, Door - Air Housing
12	850-0045	2	Washer, Lock - Spring (5/16")	30	134-1089	2	Bracket, Air Housing Door
13	800-0024	2	Screw, Cap - Hex Head (5/16-18 x 1/2")	31	134-1373	2	Screw, Door Panel (Special)
14	134-1449	1	Housing, Cylinder Air - Front	32	134-1180	4	Washer, Retainer - Door Panel (Also 8 used on top cover on some early models)
15	850-0040	4	Washer, Lock - Spring (1/4")	33	870-0194	6	Nut, Clinch (1/4-20) Door Panel and Cover
16	815-0235	4	Screw, Cap - Hex Head (1/4-20 x 5/8")	34	508-0005	2	Grommet, Rubber (9/16")
17	PAN, CYLINDER AIR HOUSING (BOTTOM)			35	853-0008	4	Washer, Lock - ET (#8)
	134-1418	1	Begin Spec T	36	813-0098	4	Screw, Machine - Round Head (#10-32 x 3/8")
18	134-1418	1	Specs A Through R	37	517-0108	2	Plug, Dot Button (1-1/8" Hole)
	854-0013	2	Washer, Lock - IT (#12)				

NOTE: Blower Housing changes with various combinations of fac

SERVICE KITS AND MISCELLANEOUS

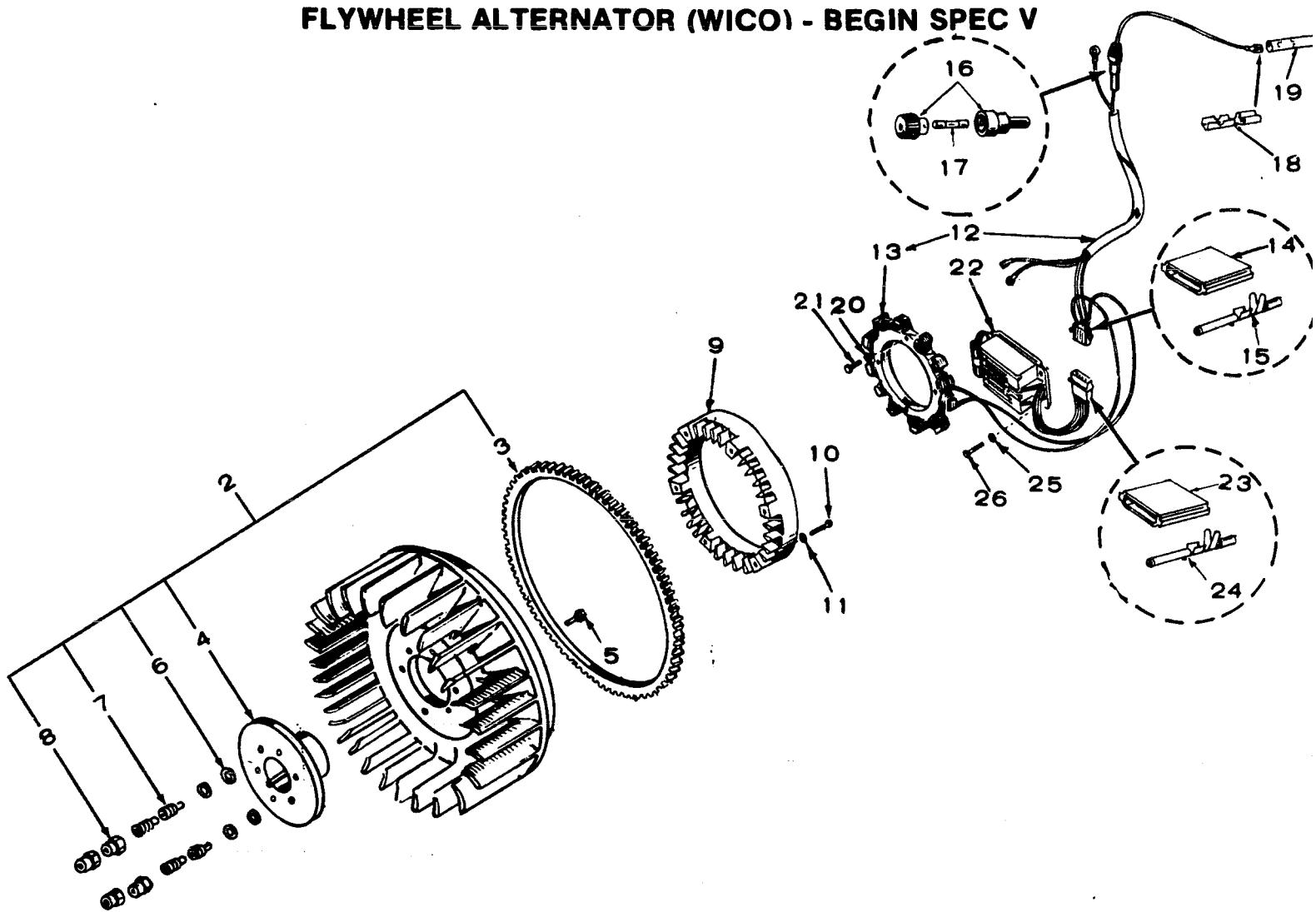
PART NO.	QTY. USED	PART DESCRIPTION
98-1100	1	Decal Kit
168-0087	1	Gasket Kit
OVERHAUL KIT		
522-0245	1	Begin Spec S
522-0202	1	Specs A Through R
PAINT TOUCH-UP (Pressurized Can)		
525-0305	As Req	Non-Metallic Green (13 oz.)
525-0137	As Req	Metallic Green (16 oz.)
525-0454	As Req	Greige (13 oz.)

NOTE: For other kits, refer to the group for the part in question.

OPTIONAL EQUIPMENT SECTION

This section contains parts listing of factory installed options.
NOTE: options may not be applicable to all models; for field installations, additional parts are usually required.

OPTION 1
FLYWHEEL ALTERNATOR (WICO) - BEGIN SPEC V



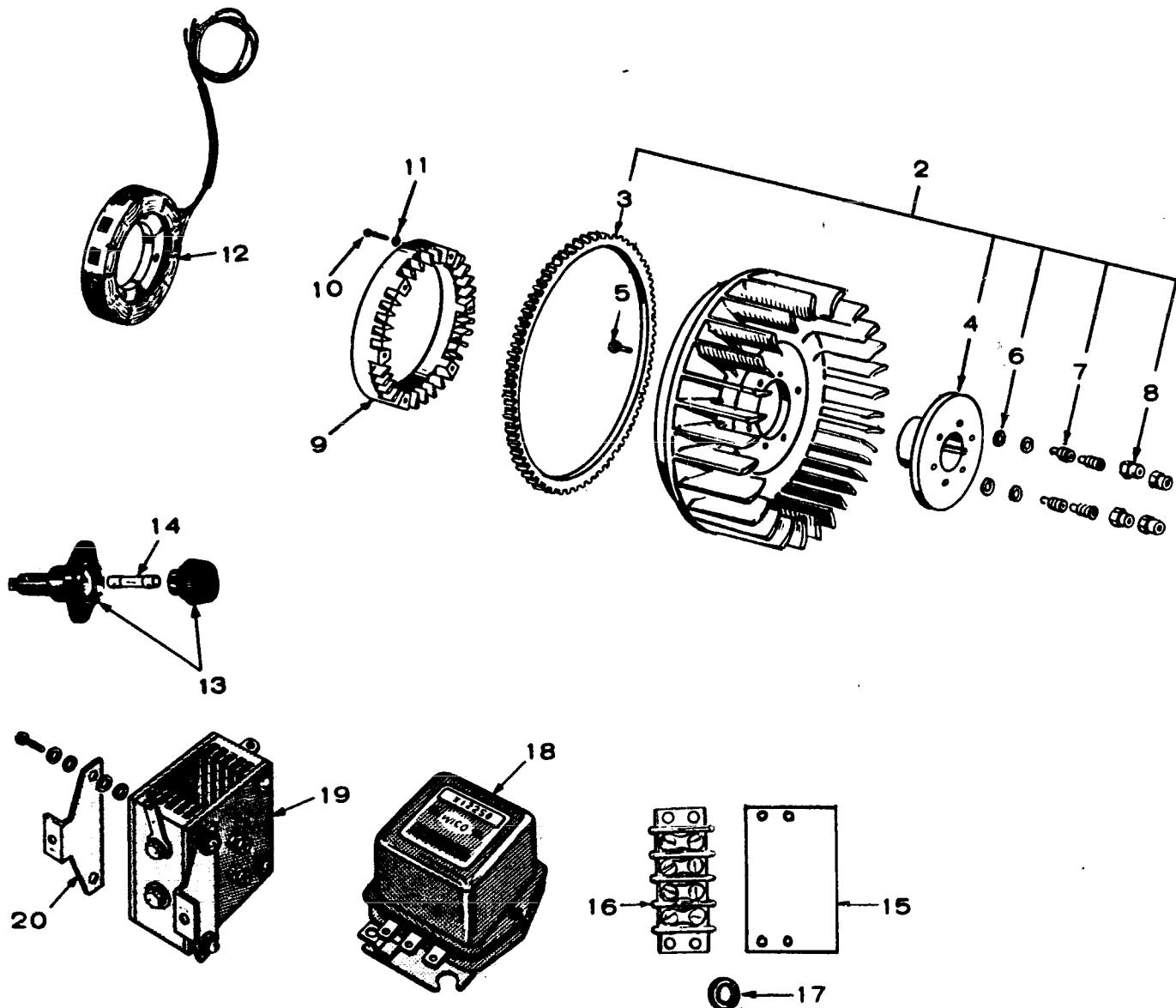
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
2	134-1556	1	Flywheel Assembly (Includes Parts Marked *)	14	323-0759	1	△Connector, Socket Housing
3	104-0423	1	*Gear, Ring	15	323-0488	4	△Socket, Connector (Female)
4	134-1401	1	*Hub, Flywheel	16	321-0165	1	△Holder, Fuse (Includes 30 Amp Fuse)
5	801-0054	4	*Screw, Cap - Hex Head (3/8-24 x 2")	17	321-0162	1	△Fuse (30 Ampere)
6	526-0187	4	*Washer, Flat (19/32" ID x 1-1/8" OD x 16 Ga. Thk)	18	332-0529	2	△Terminal, Crimp
7	104-0543	4	*Spacer and Bellville Washer Assembly	19	332-0556	2	△Connector, Faston
8	115-0150	4	*Nut, Hex - Locking (3/8-24)	20	850-0030	3	Washer, Lock - Spring (#10)
9	191-0400	1	Rotor	21	813-0107	3	Screw, Machine - Round Head (#10-32 x 1-1/4")
10	812-0133	6	Screw, Machine - Round Head (#12-24 x 1-1/2")	22	305-0478	1	Regulator, Voltage (Includes parts marked †)
11	850-0035	6	Washer, Lock - Spring (#12)	23	323-0763	1	†Connector, Socket Housing
12	191-0918	1	Stator Assembly (Includes Parts Marked △)	24	323-0496	4	†Pin, Connector (Male)
13	191-0724	1	△Stator Only (Includes Leads to Connector)	25	850-0040	3	Washer, Lock - Spring (1/4")
				26	800-0006	3	Screw, Cap - Hex Head (1/4-20 x 7/8")

* - Parts included in 134-1556 Flywheel Assembly.

△ - Parts included in 191-0918 Stator Assembly.

† - Parts included in 305-0478 Regulator.

OPTION 2
FLYWHEEL ALTERNATOR (WICO) - SPECS A THROUGH U

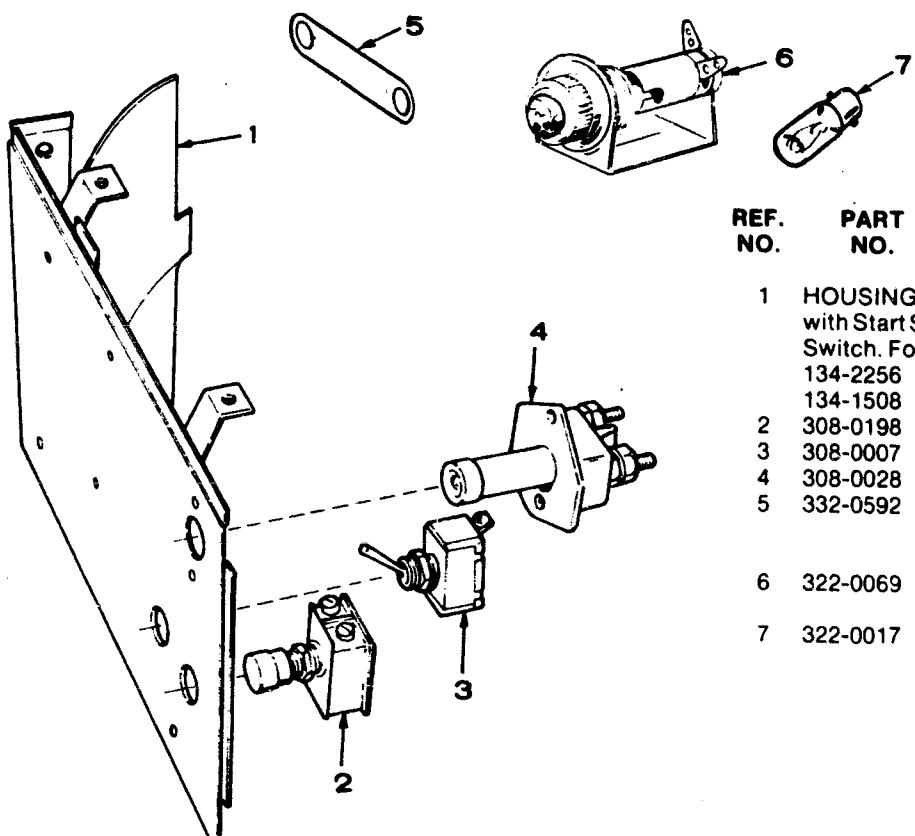


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
2	134-1556	1	Flywheel Assembly (Includes Parts Marked *)
3	104-0423	1	*Gear, Ring
4	134-1401	1	*Hub, Flywheel
5	801-0054	4	*Screw, Cap - Hex Head (3/8-24 x 2")
6	526-0187	4	*Washer, Flat (19/32" ID x 1-1/8" OD x 16 Ga. Thk)
7	104-0543	4	*Spacer and Bellville Washer Assembly
8	115-0150	4	*Nut, Hex - Locking (3/8-24)
9	191-0400	1	Rotor
10	812-0133	6	Screw, Machine - Round Head (#12-24 x 1-1/2")
11	850-0035	6	Washer, Lock - Spring (#12)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	191-0509	1	Stator
13	321-0103	1	Holder, Fuse (Includes 20 Amp Fuse)
14	321-0128	1	Fuse (20 Amp)
15	332-0872	1	Strip, Marker
16	332-0537	1	Block, Terminal (4 Place)
17	508-0071	1	Grommet, Blower Housing
18	305-0261	1	Regulator, Voltage (12 Volt, 2 Step)
19	305-0267	1	Rectifier Assembly (Includes Mounting Brackets)
20	305-0262	2	Bracket, Rectifier Mounting

* - Parts included in 134-1556 Flywheel Assembly.
NOTE: Blower Housing changes with factory options. Refer to factory for Blower Housing giving Complete Model, Spec and Serial Number.

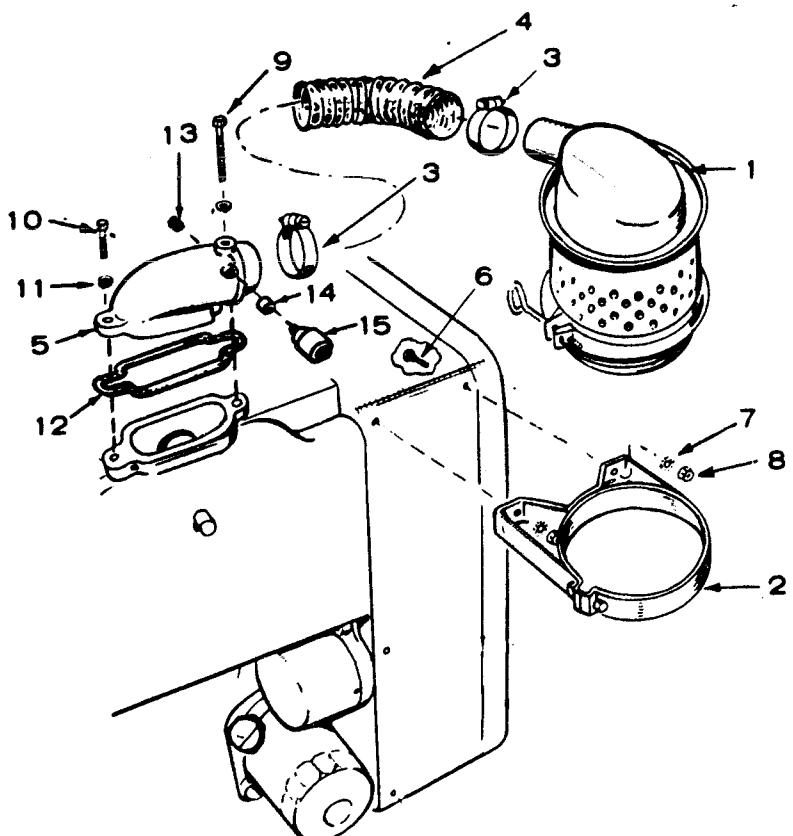
OPTION 3 CONTROL (ENGINE)



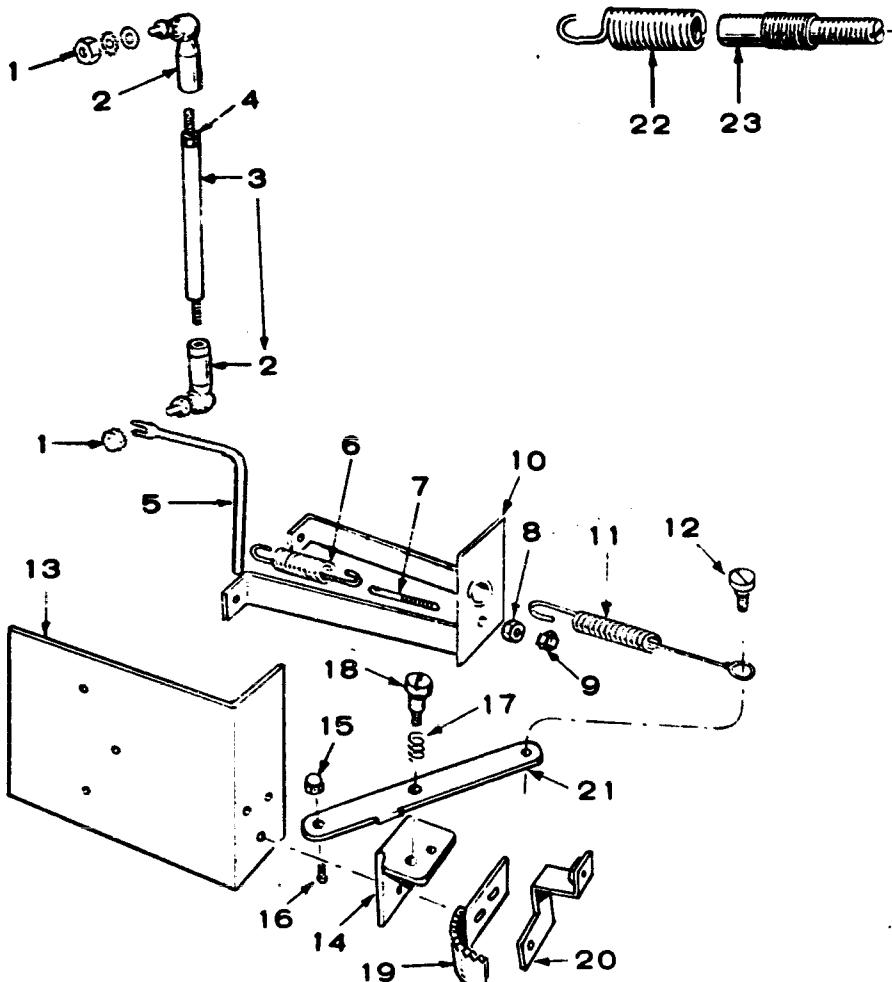
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	HOUSING, CYLINDER AIR - REAR (For Engines with Start Switch, Glow Plug Switch and Fuel Solenoid Switch. For Engines with Additional Controls refer to factory)		
134-2256	1	1	Begin Spec V
134-1508	1	1	Specs A Through U
2	308-0198	1	Switch, Start
3	308-0007	1	Switch, Fuel Solenoid
4	308-0028	1	Switch, Glow Plug
5	332-0592	1	Jumper, Terminal (Start Switch on Engines with Oil Pressure Switch)
6	322-0069	1	Light, Pilot - Red (Engines with Charging Alternator)
7	322-0017	1	Lamp, Pilot Light (Engines with Charging Alternator)

OPTION 4 OIL BATH AIR CLEANER

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	140-0677	1	Conversion Kit, Oil Bath Air Cleaner (Includes all parts in this group)
1	140-0500	1	Cleaner, Air - Oil Bath
2	140-0519	1	Band, Air Cleaner
3	503-0365	2	Clamp, Hose
4	503-0444	1	Hose, Air Cleaner to Adapter
5	140-1212	1	Adapter, Air Cleaner
6	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")
7	850-0040	2	Washer, Lock - Spring (1/4")
8	862-0001	2	Nut, Hex (1/4-20)
9	800-0015	1	Screw, Cap - Hex Head (1/4-20 x 3")
10	800-0007	1	Screw, Cap - Hex Head (1/4-20 x 1")
11	850-0040	2	Washer, Lock - Spring (1/4")
12	140-0584	1	Gasket, Adapter Mounting
13	505-0008	2	Plug, Slotted - Intake Manifold
14	140-1260	1	Fitting, Safety Filter
15	140-0961	1	Indicator Assembly, Service

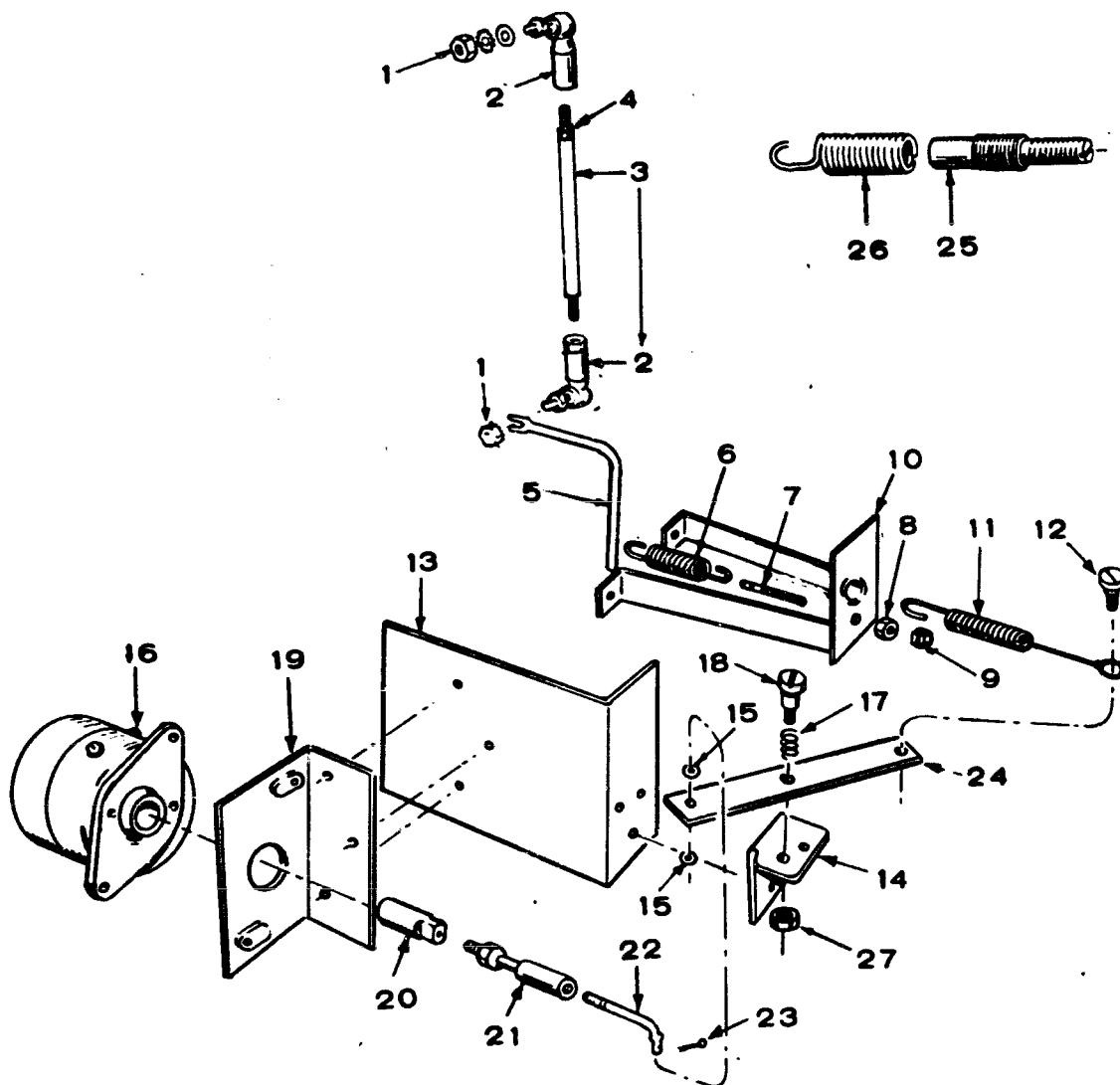


OPTION 5
GOVERNOR CONTROL (VARIABLE SPEED)



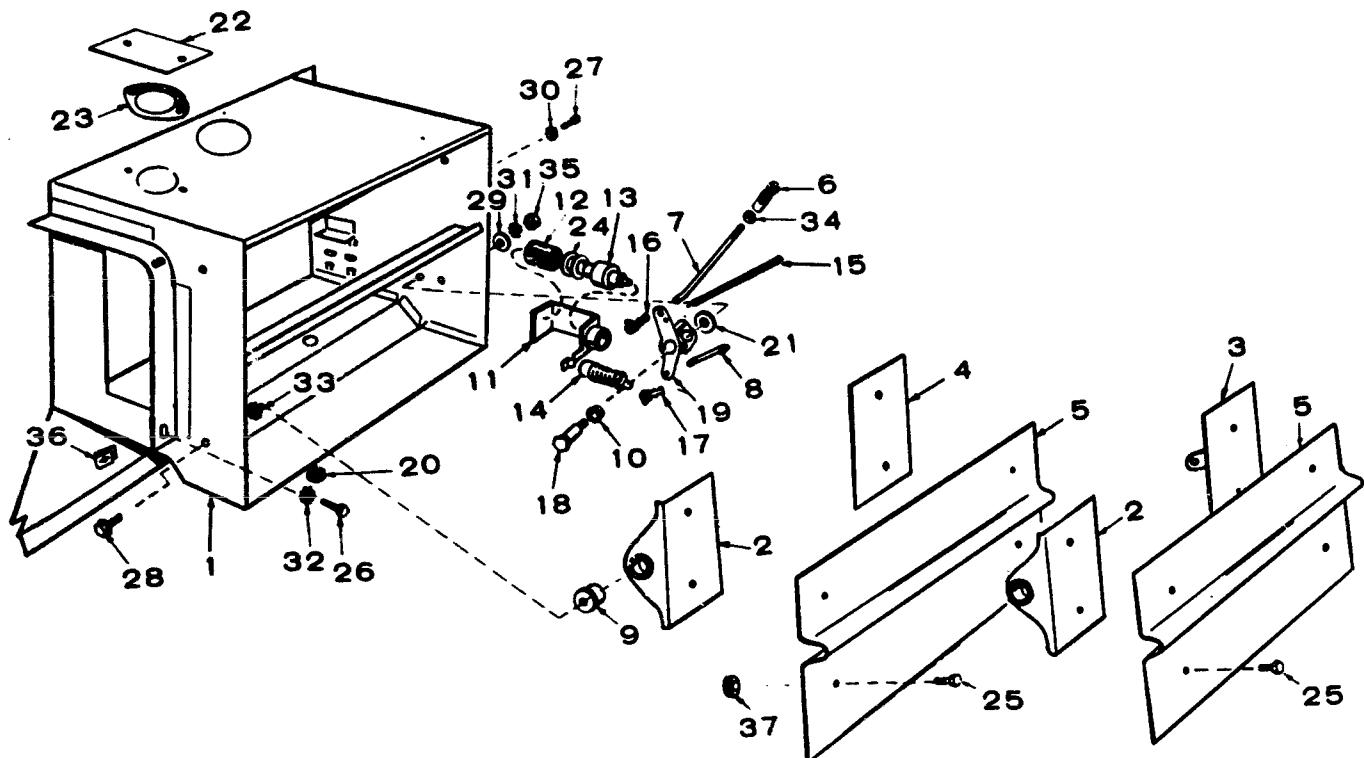
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	870-0131	2	Nut, Hex - Locking (#10-32)	11	SPRING, GOVERNOR CONTROL		
2	JOINT, BALL 150-0939	2	Begin Spec R	150-0922	150-0922	1	Speed Range 1200 to 1800 RPM (1-15/16" Coil)
	150-0974	2	Specs A Through Q	150-0921	150-0921	1	Speed Range 1200 to 2500 RPM (1-13/32" Coil)
3	LINKAGE ASSEMBLY 150-1132	1	Begin Spec R	12	150-0918	1	Screw (Special)
	150-0831	1	Specs A Through Q	13	150-0917	1	Bracket, Governor Control Mounting
4	871-0010	2	Nut, Hex (#10-32)	14	150-0916	1	Bracket, Lever Arm
5	150-1099	1	Arm Assembly, Governor - Begin Spec R	15	153-0014	1	Nut, Choke Wire Stop
6	150-1084	1	Spring, Governor - Begin Spec R	16	810-0074	1	Screw, Machine - Round Head Brass (#8-32 x 3/16")
7	150-1083	1	Stud, Governor Adjusting Begin Spec R	17	150-0907	1	Spring, Speed Control Lever Tension
8	NUT, HEX - GOVERNOR ADJUSTING STUD 862-0003	1	Begin Spec R (3/8-16)	18	150-0915	1	Screw, Special
	104-0091	1	Specs A Through Q (3/8-24)	19	150-0914	1	Ratchet Speed Control
9	NUT, SELF LOCKING (PALNUT) 870-0133	1	Begin Spec R (3/8-16)	20	150-0978	1	Bracket, Governor Stop
	870-0130	1	Specs A Through Q (3/8-24)	21	150-0908	1	Lever, Speed Control
10	BRACKET ASSEMBLY, GOVERNOR 150-1111	1	Begin Spec R	22	150-0846	1	Spring, Governor Specs A Through Q
	150-0913	1	Specs A Through Q	23	150-0822	1	Stud, Governor Adjusting Specs A Through Q

OPTION 6
GOVERNOR CONTROL (TWO SPEED)



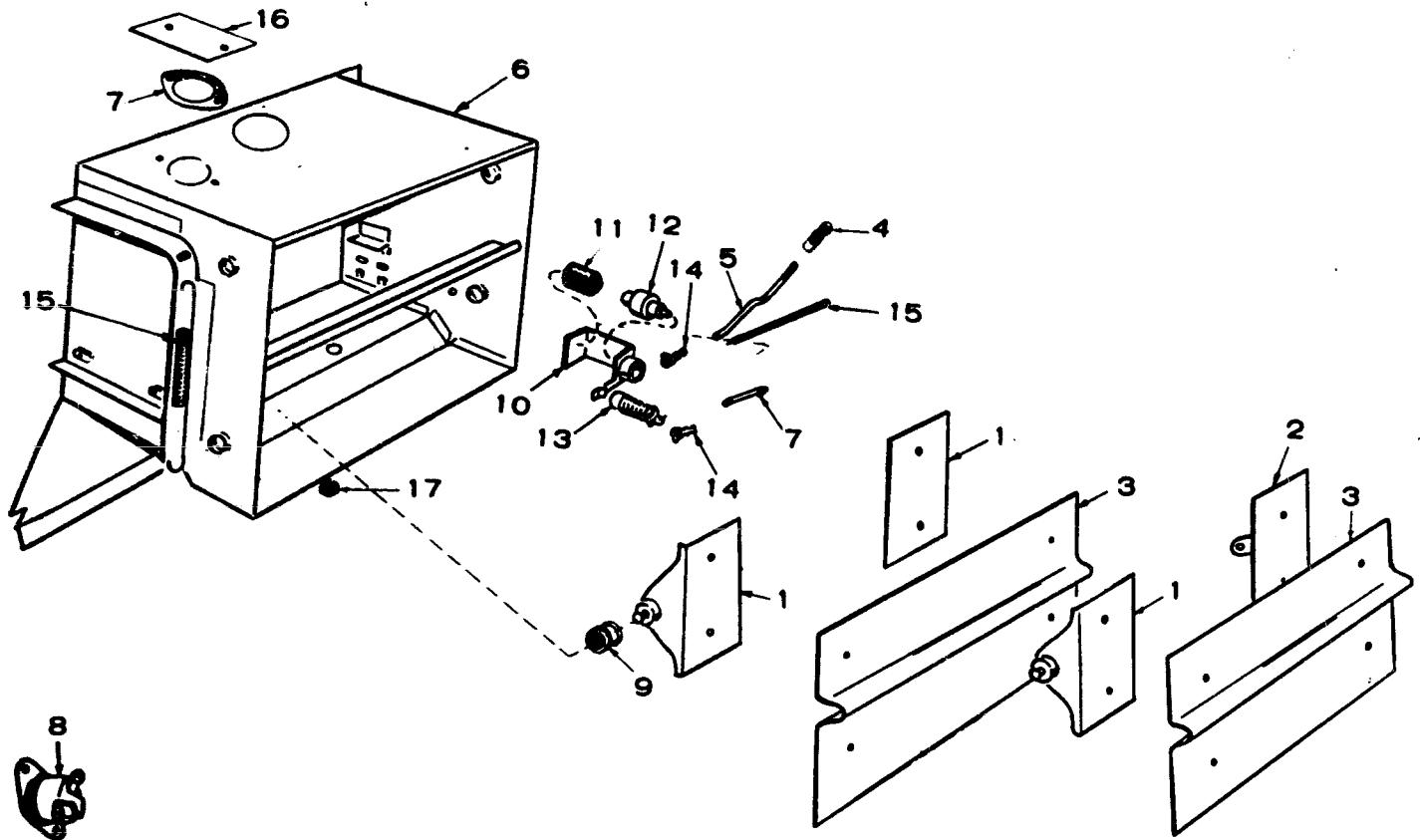
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	870-0131	2	Nut, Hex - Locking (#10-32)	11	SPRING, GOVERNOR CONTROL	1	Speed Range 1200 to 1800 RPM (1-15/16" Coil)
2	JOINT, BALL 150-0939	2	Begin Spec R Specs A Through Q	12	150-0918	1	Screw (Special)
3	LINKAGE ASSEMBLY 150-1132	1	Begin Spec R Specs A Through Q	13	150-0917	1	Bracket, Governor Control Mtg.
4	871-0010	2	Nut, Hex (#10-32)	14	150-0916	1	Bracket, Lever Arm
5	150-1099	1	Arm Assembly, Governor Begin Spec R	15	526-0116	2	Washer, Flat (.200" ID x 3/8" OD x 1/32" Thk)
6	150-1084	1	Spring, Governor - Begin Spec R	16	307-0628	1	Solenoid, Governor Control
7	150-1083	1	Stud, Governor Adjusting Begin Spec R	17	150-0907	1	Spring, Speed Control Lever Tension
8	NUT, HEX - GOVERNOR ADJUSTING STUD 862-0003	1	Begin Spec R (3/8-16)	18	150-0915	1	Screw(Special)
	104-0091	1	Specs A Through Q (3/8-24)	19	150-0906	1	Bracket, Solenoid Mounting
9	NUT, SELF LOCKING (PALNUT) 870-0133	1	Begin Spec R (3/8-16)	20	150-0905	1	Plunger, Solenoid
	870-0130	1	Specs A Through Q (3/8-24)	21	150-0925	1	Joint, Ball
10	BRACKET ASSEMBLY, GOVERNOR 150-1111	1	Begin Spec R	22	150-0923	1	Rod, Solenoid to Lever
	150-0913	1	Specs A Through Q	23	516-0036	1	Key, Cotter - Solenoid Rod
				24	150-0904	1	Lever, Control
				25	150-0822	1	Stud, Governor Adjusting - Specs A Through Q
				26	150-0846	1	Spring, Governor - Specs A Through Q
				27	115-0025	1	Nut (Special) - Lever Arm Bracket

OPTION 7
AIR SHUTTER DISCHARGE - BEGIN SPEC S



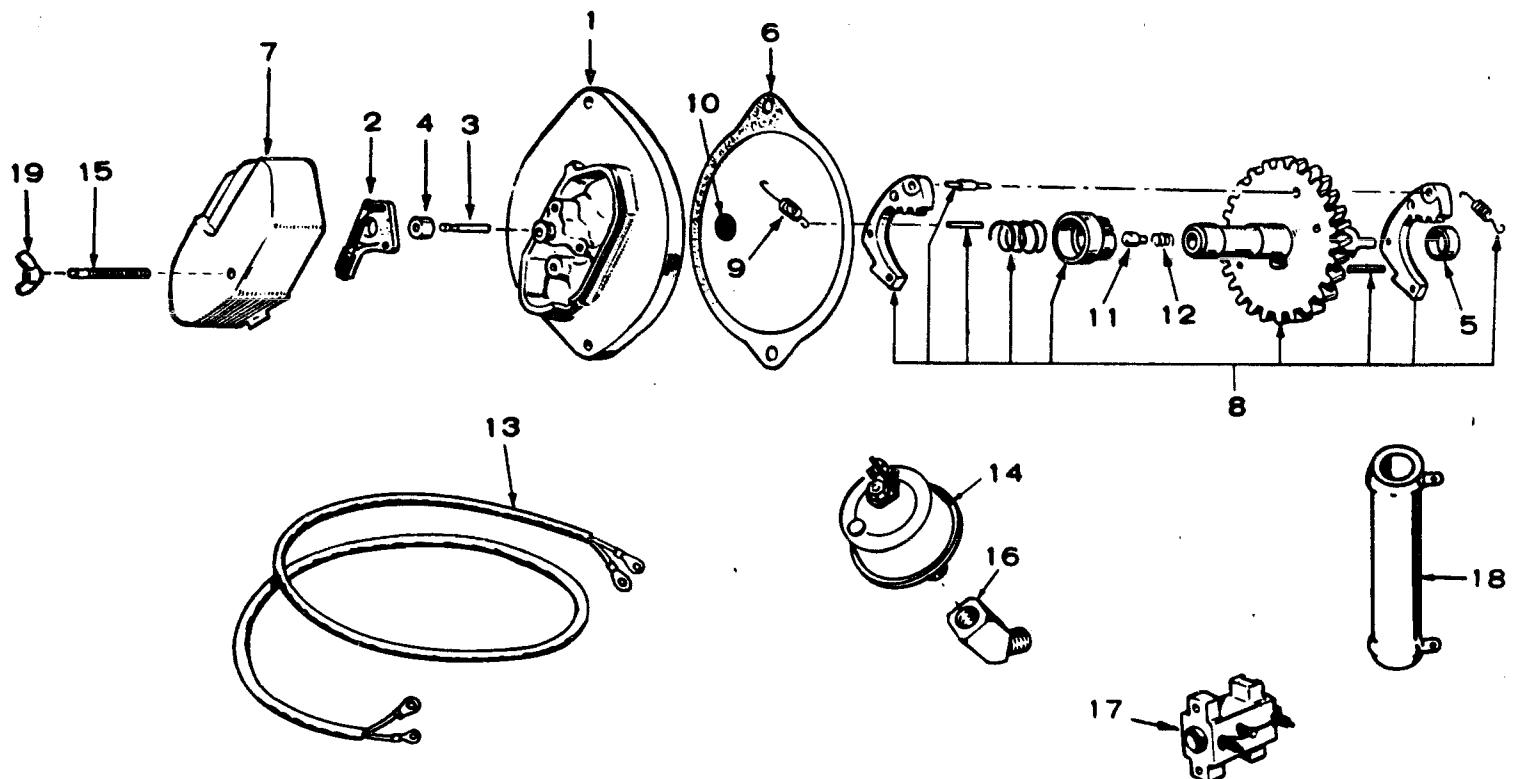
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	134-3754	1	Shutter Assembly, Complete (Internal Springs)	20	508-0002	1	Grommet, Rubber
1	134-1805	1	Duct only, Air Outlet	21	526-0213	1	Washer, Actuating Shaft
2	134-2411	2	Bracket and Pivot, Shutter	22	134-1375	1	Plate, Exhaust Outlet Cover
3	134-1802	1	Bracket and Pivot, Shutter and Rod	23	154-0738	1	Gasket, Exhaust Outlet
4	134-1801	1	Bracket and Pivot, Shutter and Spring	24	526-0175	2	Washer, Flat (41/64" ID x 29/32" OD x 1/16" Thk)
5	134-1614	2	Shutter, Air Outlet	25	815-0194	8	Screw, Cap - Hex Head (#10-32 x 3/8")
6	150-1358	1	Joint, Ball	26	815-0235	3	Screw, Cap - Hex Head (1/4-20 x 5/8")
7	134-1606	1	Rod, Shutter Control - Upper	27	813-0097	2	Screw, Machine - Round Head (#10-32 x 5/16")
8	134-1607	1	Rod, Shutter Control - Lower	28	821-0010	4	Screw, Cap - Hex Head Locking (1/4-20 x 1/2")
9	134-2900	4	Bearing, Shutter	29	526-0113	1	Washer, Flat (11/32" ID x 1" OD x 3/32" Thk)
10	134-1248	2	Bearing, Actuating Arm	30	853-0008	2	Washer, Lock - ET (#8)
11	134-1610	1	Bracket and Guide Vernatherm	31	853-0016	1	Washer, Lock - ET (5/16")
12	134-0656	1	Spring, Vernatherm Element	32	853-0013	3	Washer, Lock - ET (1/4")
13	309-0085	1	Element, Vernatherm	33	856-0006	4	Washer, Lock - EIT (1/4")
14	134-0658	1	Spring, Shutter Return - Lower	34	870-0131	1	Nut, Hex - Locking (#10-32)
15	134-1817	1	Spring, Shutter Return - Upper	35	860-0015	1	Nut, Ham - Hex (5/16-18)
16	518-0004	1	Clip, Rod End - Right Side	36	870-0178	3	Nut, Clinch (1/4-20)
17	518-0006	2	Clip, Rod End - Left Side	37	870-0131	8	Nut, Lock (#10-32) Shutter Mounting
18	134-1605	1	Shaft, Actuating Arm				
19	134-1604	1	Arm, Actuating				

OPTION 8
AIR SHUTTER DISCHARGE - SPEC A THROUGH R



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	134-1234	1	Shutter Assembly, Complete (External Springs) - For replacement order 134-3754
1	134-1242	3	Bracket and Pivot
2	134-1238	1	Bracket, Shaft and Pin Assembly
3		2	Shutter
4	150-1358	1	Joint, Ball
5	134-1247	1	Rod, Shutter Control
6		1	Duct only - Not Sold Separately
7	154-0738	1	Gasket, Exhaust Outlet
8	309-0162	1	Switch, Hi-Temperature Specs A Through N (Mounts on Air Ducts)
9	134-1248	4	Bearing, Shutter
10	134-1244	1	Bracket and Guide, Vernatherm
11	134-0656	1	Spring, Vernatherm Element
12	309-0085	1	Element, Vernatherm
13	134-0658	1	Spring, Shutter Return
14	518-0004	1	Clip, Rod End
15	134-1437	2	Spring, Shutter Pivot
16	134-1375	1	Plate, Exhaust Outlet
17	508-0002	1	Grommet, Rubber

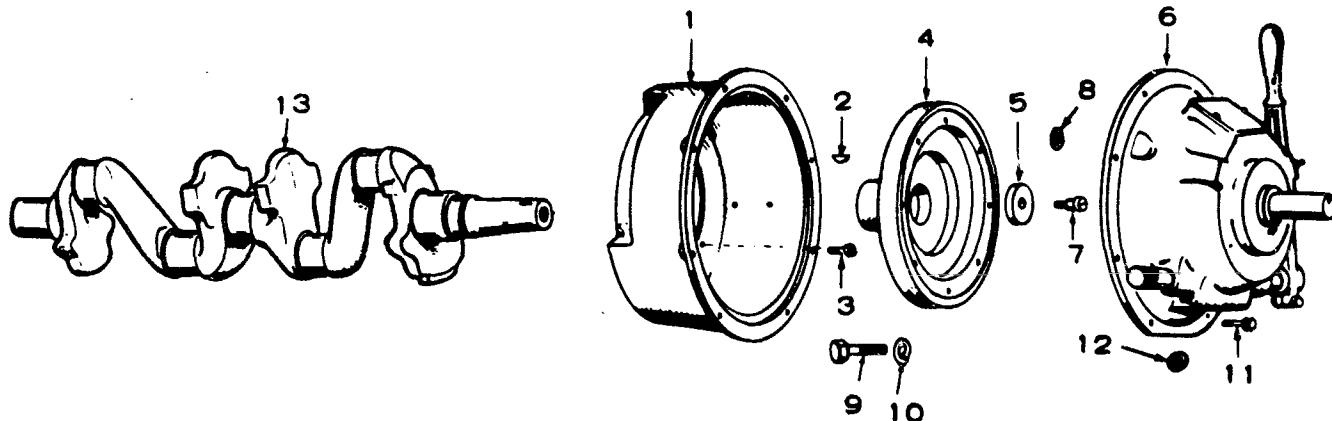
OPTION 9
LOW OIL PRESSURE SWITCH



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	191-0496	1	Plate, Centrifugal Switch
2	309-0134	1	Switch, Centrifugal
3	309-0152	1	Plunger
4	160-0382	1	Diaphragm, Switch
5	160-0720	1	Spacer, Control
6	160-0721	1	Gasket, Switch Plate
7	191-0392	1	Cover, Switch Plate
8	191-0388	1	Control Assembly, Switch
9	160-0711	2	Spring, Weight (Included in Switch-Control Assembly)
10	160-0806	1	Disc, Thrust Plunger
11	160-0774	1	Plunger
12	160-0773	1	Spring, Plunger
13	338-0258	1	Harness, Centrifugal Switch
14	309-0169	1	Switch, Low Oil Pressure <i>(Note: Engines with factory mounted controls see optional engine control group)</i>
15	520-0347	1	Stud, Steel (#10-32 x 1-5/8")
16	502-0053	1	Elbow, 45° - Low Oil Pressure Switch Mounting
17	320-0104	1	Relay, Emergency Start
18	304-0217	1	Resistor, Fixed (1-Ohm, 10 Watt)
19	865-0011	1	Nut, Wing (10-32)

NOTE: All parts listed are used when controls are not factory mounted. Engines with factory mounted controls require only the oil pressure switch and elbow (See also Engine Control group).

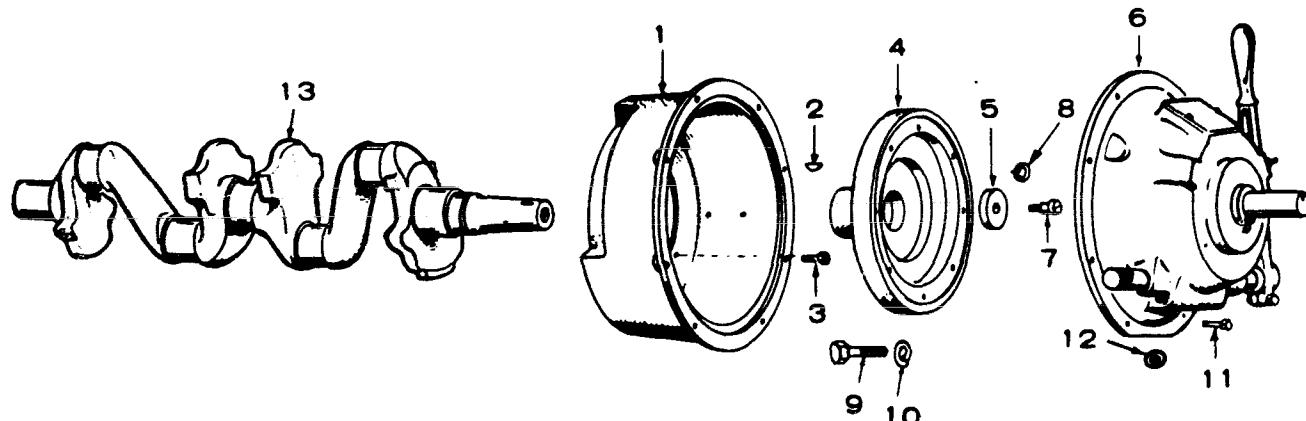
OPTION 10 CLUTCH (ROCKFORD)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	190-0251	1	Housing, Clutch	10	850-0045	8	Washer, Lock - Spring (5/16")
2	515-0006	1	Key, Clutch	11	800-0051	8	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
3	805-0019	4	Bolt, Place (3/8-16 x 1-7/16")	12	850-0050	8	Washer, Lock - Spring (3/8")
4	190-0252	1	Flange, Adapter	13	104-1294	1	Crankshaft
5	190-0254	1	Washer, Flat - Special				
6	190-0258	1	Clutch Assembly (Rockford #PTA-5883-X1)				
7	800-0549	1	Screw, Cap - Hex Head (7/16-14 x 1-3/4")				
8	850-0055	1	Washer, Lock - Spring (7/16")				
9	800-0030	8	Screw, Cap - Hex Head (5/16-18 x 1-1/4")				

NOTE: For Components, Contact your nearest Rockford Clutch dealer. Borg Warner Corporation - Rockford Illinois 61100.

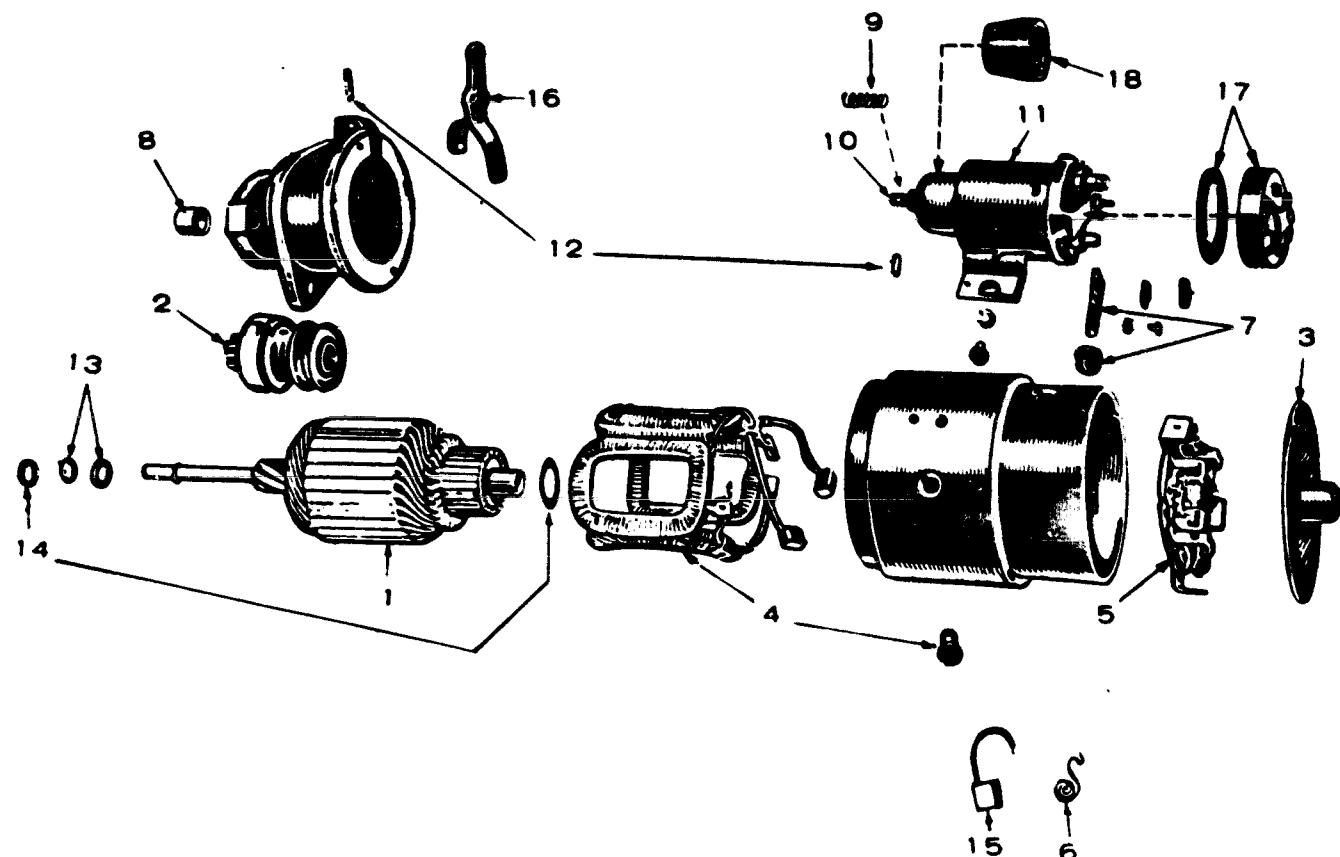
OPTION 11 CLUTCH (TWIN DISC)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	190-0251	1	Housing, Clutch	10	850-0045	8	Washer, Lock - Spring (5/16")
2	515-0006	1	Key, Clutch	11	800-0051	8	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
3	805-0019	4	Bolt, Place (3/8-16 x 1-7/16")	12	850-0050	8	Washer, Lock - Spring (3/8")
4	190-0253	1	Flange, Adapter	13	104-1294	1	Crankshaft
5	190-0254	1	Washer, Flat - Special				
6	190-0325	1	Clutch Assembly (Twin Disc #C-107SP-5)				
7	800-0549	1	Screw, Cap - Hex Head (7/16-14 x 1-3/4")				
8	850-0055	1	Washer, Lock - Spring (7/16")				
9	800-0030	8	Screw, Cap - Hex Head				

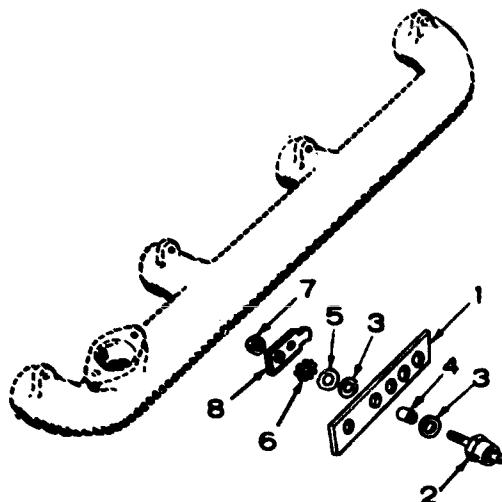
NOTE: For Components Contact your nearest Twin Disc clutch dealer. Racine, Wisconsin 53403

**OPTIONAL
STARTER PARTS**



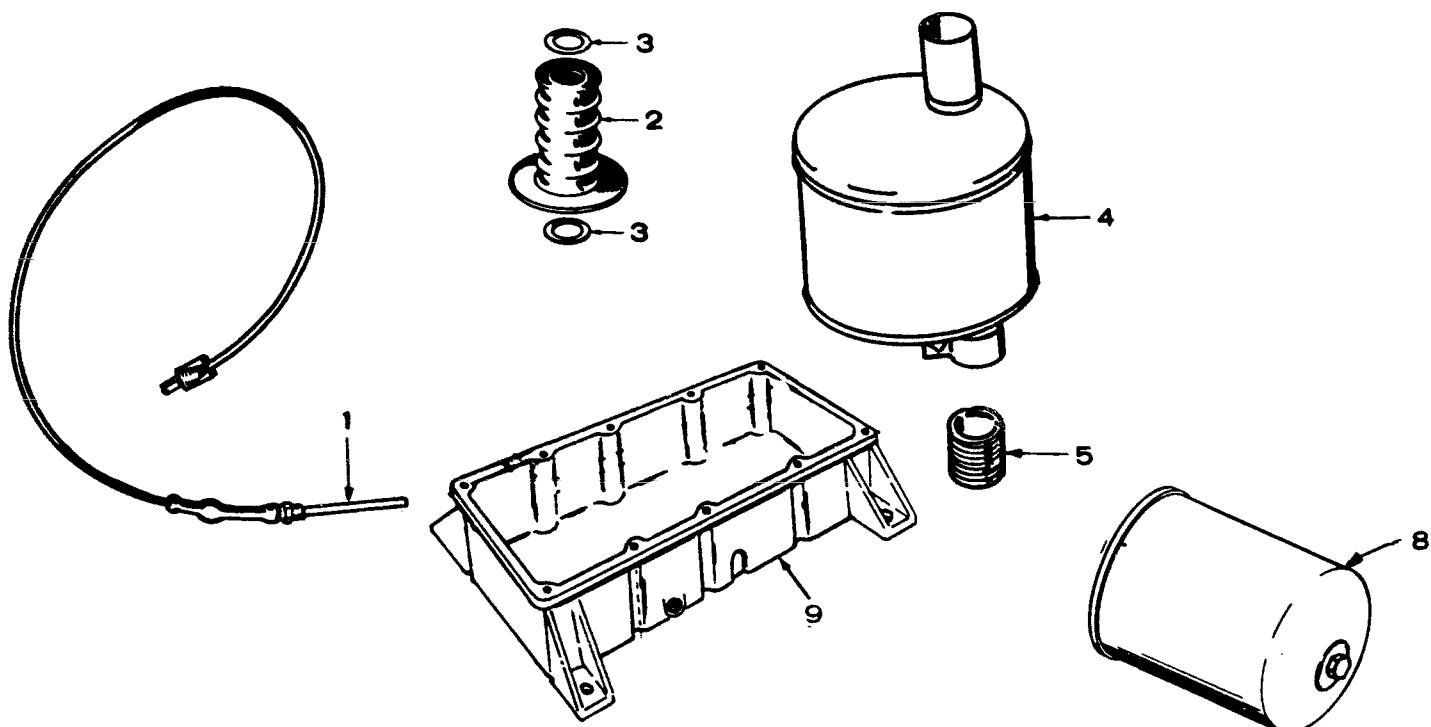
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	191-0443	1	24 Volt
1	191-0713	1	Armature
2	191-0432	1	Clutch
3	191-1023	1	Head Assembly, Commutator End
4	191-1043	1	Coil Package, Field
5	191-1042	1	Plate Assembly, Brush
6	191-1020	1	Spring Set, Brush (Set of 4)
7	191-1263	1	Connector Package
8	191-0497	1	Bearing (Bronze), Drive End
9	191-1027	1	Spring, Plunger
10	191-1028	1	Core Assembly, Moving
11	191-0715	1	Switch, Solenoid
12	191-1029	1	Yoke Parts Package
13	191-1030	1	Stop and Lock Ring Package, Pinion
14	191-1031	1	Thrust Washer Package, Armature (Use as Required)
15	191-0714	1	Brush Set, Service
16	191-1032	1	Yoke
17	191-0468	1	Cover, Solenoid
18	191-1134	1	Boot, Rubber - Part of Moving Core Assembly

**OPTIONAL
HIGH AIR TEMPERATURE SWITCH**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	309-0195	1	Bracket, Switch Mounting
2	SWITCH, HIGH AIR TEMPERATURE 309-0196 309-0206	1	Use W/O Indicator Lights 1 1
3	508-0126	2	Insulator, Washer
4	508-0127	1	Insulator, Sleeve
5	526-0021	1	Washer, Flat (17/64" ID x 3/4" OD x 1/16" Thk)
6	856-0006	1	Washer, Lock - ET (1/4")
7	862-0001	1	Nut, Hex (1/4-20)
8	332-0876	1	Terminal, Ground

MISCELLANEOUS OPTIONAL PARTS



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	102-0558	1	Heater, Oil Base
2	306-0193	1	Cover, Stop Solenoid Plunger
3	518-0218	2	Ring, Retaining - Stop Solenoid Plunger Cover
4	155-0824	1	Muffler, Exhaust
5	505-0220	1	Nipple, Exhaust
6	122-0193	1	Filter, Oil (Heavy Duty) 5-3/4" long
9	102-0482	1	Base, Oil (used w/oil base heater)

SPEC. PARTS DATA INDEX NO. 117

MODEL	SPEC.	FICHE LOCATION
DJC-MS	1V	A1
DJC-MS	28V	A2
DJC-MF	1008V	A3
DJC-MS	1612V	A4
DJC-MS	1832V	A5
DJC-MS	1918V	A6
DJC-MS	2315T	A7
DJC-MF	2320V	A8
DJC-MF	2407V	A9
DJC-MF	2421V	A10
DJC-MS	2422V	A11
DJC-MS	2423V	A12
DJC-MS	2445V	A13
DJC-MS	2450V	A14
DJCM-MS	2450V	B1
DJC-MF	2462V	B2
DJC-MF	2518V	B3
DJC-MS	2532V	B4
DJC-MF	2556V	B5
DJC-MS	2562V	B6
DJC-MF	2564V	B7
DJC-MF	2582V	B8
DJC-MS	2587V	B9
DJC-MF	2601V	B10
DJC-MF	2605V	B11
DJC-MF	2611V	B12
DJC-MF	2632V	B13
DJC-MS	2650V	B14
DJC-MS	2651V	C1
DJC-MF	2654V	C2
DJC-MF	2696V	C3
DJC-MS	2723V	C4
DJC-MS	2815V	C5
DJC-MS	2782V	C6
DJC-MF	2836V	C7
DJC-MF	3045V	C8
DJC-MS	3059V	C9
DJC-MF	3062V	C10
DJC-MS	3063V	C11
DJC-MS	3118V	C12
DJC-MS	3160V	C13
DJC-MF	3172V	C14
DJC-MF	3185V	D1
DJC-MF	3198V	D2
DJC-MS	3204V	D3
DJC-MS	3228V	D4
DJC-MS	3258V	D5
DJC-MS	3301V	D6
DJC-MS	3313V	D7
DJC-MS	3315V	D8
DJCM-MS	3367V	D9

<u>MODEL</u>	<u>SPEC.</u>	<u>FICHE</u>	<u>LOCATION</u>
DJC-MS	3445V	117A	D10
DJC-MF	3502V	117A	D11
DJC-MS	3531V	117A	D12
DJC-MS	3541V	117A	D13
DJC-MF	3554V	117A	D14
DJC-MS	3584V	117A	E1
DJC-MF	3585V	117A	E2
DJC-MS	3630V	117A	E3
DJC-MS	3635V	117A	E4
DJC-MS	3652V	117A	E5
DJC-MF	3660V	117A	E6
DJC-MS	3686V	117A	E7
DJC-MS	3690V	117A	E8
DJC-MF	3698V	117A	E9
DJC-MS	3702V	117A	E10
DJC-MF	3725V	117A	E11
DJC-MS	3726V	117A	E12
DJC-MF	3728V	117A	E13
DJCM-MS	3776V	117A	E14
DJC-MS	3803V	117A	F1
DIC-MS	3845V	117	G1

SPECIAL PARTS LIST FOR MODEL DJC-MS SPEC 3845V
 FOR STANDARD PARTS REFER TO CATALOG 967-0252 KEY NO. -
 OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Manufactured For: Lighthourn					
110-2940	2	Head Assembly, Cylinder (Refer To Standard Head Assembly For Components, Except Parts Marked *)			
110-2941	2	*Head, Cylinder (Less Valves), (Includes Parts Marked #)			
110-1869	4	*#Guide, Valve - Intake			
110-1268	8	*#Seat, Valve			
110-1870	4	*#Guide, Valve - Exhaust			
110-1871	4	*Valve, Intake			
509-0132	4	*Seal, Oil - Intake Valve			
502-0281	2	*Connector, Inverted Male - Oil Line			
520-0011	4	*Stud, Air Cleaner Manifold (5/16-24 X 1-7/16")			
333-0107	4	Plug, Glow (24 Volt)			
102-0482	1	Base, Oil			
102-0558	1	Heater, Oil Base			
140-1212	1	Adapter, Air			
505-0008	1	Plug, Slotted - Air Cleaner Adapter			
140-1260	1	Fitting, Restriction Indicator			
336-1408	1	Jumper, Preheater To Ground			
309-0206	1	Switch, High Air Temperature Cut Off			
191-0443	1	Motor, Starter - Complete (Refer To Standard Starter Motor For Components, Except Parts Marked °)			
191-0713	1	°Armature			
191-0715	1	*Switch, Solenoid			
307-0668	1	Solenoid, Stop			
306-0193	1	Cover, Stop Solenoid Plunger			
518-0218	2	Ring, Retainer - Stop Solenoid Plunger Cover			
508-0002	1	Grommet, Rubber - Housing (1/2" Hole)			
508-0117	1	Grommet, Rubber - Housing (1-3/8" Hole)			